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**THE FDRE MINISTRY OF HEALTH**  
የመድኃኒት ፈንድና አቅርቦት ኤጀንሲ  
**PHARMACEUTICALS FUND AND SUPPLY AGENCY**



# MEDICAL INSTRUMENTS/EQUIPMENT CATALOGUE



World Health Organization

**WHO Ethiopia**

Addis Ababa, Ethiopia

December, 2008

## TABLE OF CONTENTS

	Page No.
Acknowledgements .....	II
Forward.....	III
Introduction.....	IV
Diagnostic Instruments.....	1
Laboratory instruments.....	14
Imaging instruments.....	30
General Surgery instruments.....	32
ENT instruments.....	55
Ophthalmic instruments.....	73
Cardiovascular and thoracic instruments.....	110
Dental instruments.....	131
Orthopedic instruments.....	148
Rectal instruments.....	175
Gynecology instruments.....	179
Physiotherapy .....	196
Hospital Equipments.....	203
Catalogue index.....	210

## **ACKNOWLEDGEMENTS**

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## **FORWARD**

The day to day health care activities highly depend on medical instruments. Health facilities ranging from rural health clinic to large specialized hospitals are in need of medical instruments from a simple scissors to a more complex and advanced medical devices. Yet, most of them lack knowledge about medical instruments that are appropriate for their need. This is particularly true in developing countries where health care technology assessments are rare.

The Pharmaceutical Fund and Supply Agency (PFSA) was established by a proclamation No. 553/2007 to ensure continuous supply of quality and affordable pharmaceuticals in the public health facilities.

To realize the objective it would be necessary to categorize medical instruments which would be helpful in procurement. Having been the first of its type in Ethiopia, this First Edition of Medical instrument is designed to assist health facilities in the procurement of medical instruments. The pictures shown do not suggest or endorse a specific company or brand, but are selected to aid personnel in the selection and procurement of medical instruments.

I hope that the medical instrument catalogue will serve as useful guide for procurement of medical instruments in the country.

Finally, I would like to express my gratitude to all those who have directly or indirectly participated in the preparation and printing of this catalogue. I also call upon your continued support to keep the catalogue up-to-date by forwarding comments and suggestions to the Pharmaceutical Fund and Supply Agency.

Haileselassie Bihon

Director General of PFSA

## **INTRODUCTION**

Procurement agencies and health facilities are required to prepare appropriate technical specifications and descriptions of medical instruments or equipment whenever they conduct tenders or prepare purchase orders. In order to accomplish this task effectively, knowledge of the type, nature and specific characteristics of the instruments/equipment is essential.

The main purpose of this catalogue is, therefore, to provide technical guidance for procurement of medical instruments/equipment by procurement agencies and health facilities. It is also hoped that this catalogue can serve as a useful teaching aid for health personnel training institutions.

The catalogue is divided in to thirteen sections based on the areas of use of the instruments/equipment or departments. Attempt has been made to illustrate each instrument/equipment in picture followed by a catalogue number, specification/description and use (where ever it is relevant). Some sections (e.g. diagnostics) are incomplete in terms of coverage and will be treated separately in the future. At the end, an index is included for ease of reference. The catalogue has a general nature and focuses on commonly used instruments/equipment; it can be used by any level of health facility or procurement agency by extracting information pertinent to its level.

As it is the first attempt of its kind, the catalogue needs improvement and updating from time to time. Therefore, comments are welcome and can be sent to the Pharmaceutical Fund and Supplies Agency, P.O.Box 21904, Addis Ababa, Ethiopia.



# **Diagnostic Instruments**

## Diagnostic instruments

### Instrument Image



### Specification/Description

#### **Body Fat analyser**

Bio-electrical impedance analysis technique

**Use:** For determining internal body composition a fast and accurate procedure

DI-02-000



#### **Body Logic Pro body fat analyser**

Fat analyser, button key pad with storage personal data files

DI-02-001



#### **Handheld refractometer**

Simple rubber grip and optical focus system with automatic temperature compensation system

**Use :** For accurate measurement of specific gravity and protein determination

DI-02-002



#### **Hemacytometer**

Double rulings and visible through wide range of illumination. Rulings ar 0.1mm below cover glass with fused rodium

**Use :** For counting of erythrocytes and leukocytes

DI-02-003

## Diagnostic instruments

### Instrument Image



DI-02-004

### Specification/Description

#### **Dynatest Dynamomete**

Conveniently sized dynamometer is very sturdy, with yellow softballs

**Use:** For determining the exact muscle strength in hands in rheumatic disorder and after sport injuries



DI-02-005

#### **Reflex Babinski Percussion Hammer**

Percussion hammer with foot pin, with screw and 10in/8in



DI-02-006

#### **Reflex Babinsky Percussion Hammer**

Babinsky Percussion Hammer with 2 threads, 24cm



DI-02-007

#### **Reflex Berliner Percussion Hammer**

Berliner Percussion Hammer with 20cm size.



## Diagnostic instruments

### Instrument Image

### Specification/Description



#### **Reflex Buck Neurological Hammer**

Neurological hammer , pocket fit, telescoping 4-1/2in to 7in, chrome

DI-02-008



#### **Reflex buck with needle and brush**

Buck with needle and brush 18cm

DI-02-009



#### **Reflex Dejerine Percussion Hammer**

Dejerine Percussion Hammer with/without needle 21 cm/ with foot pin, with screw/ 8-1/4in

DI-02-010



#### **Reflex Percussion Hammer Foot Grade**

Reflex percussion Hammer foot Grade adult/ infant , stainless steel, 7 1/2in

DI-02-011

## Diagnostic instruments

### Instrument Image



DI-02-012

### Specification/Description

#### Reflex Queens Percussion Hammer

Reflex Queens perussion Hammer with plastic Handles 35 cm/flexible/ adult head 2in,13in, /pediatric head 1-1/2in,9in



DI-02-013

#### Reflex Tylor Percussor Hammer

Stainless steel Taylor percussion hammer , 20cm/ small with 6-1/4"/large, 7-1/2"



DI-02-014

#### Reflex Troemner Percussion Hammer

Troemner Percussion Hammer , 180g/230g, 25cm/9 3/4", with large and small rubber tips, hollow tapered handle with sharp point, chrome



DI-02-015

#### Neurological Hammer

Dual sided hammer head  
Includes brush and needle

## Diagnostic instruments

### Instrument Image



DI-02-016

### Specification/Description

#### **Aluminum Pinard Foetal Stethoscope**

Pinard foetal stethoscope with good shape of bell particularly for acoustics

**Use:** For auscultating the heart sounds of the embryo in the womb



DI-02-017

#### **Duplex Deluxe Baby Stethoscope**

Duplex deluxe baby stethoscope for babies with double ended chest piece, high acoustic performance



DI-02-018

#### **Duplex Deluxe Neonatal Stethoscope**

Precision finished double headed chest piece

**Use :** For newborn babies and infants



DI-02-019

#### **Fetal Doppler Ultrasound Stethoscope**

Pocket size ultrasound 2.25Mhz doppler

**Use :** Provides accurate auscultation of heart, lung and blood pressure tones and ergonomically

## Diagnostic instruments

### Instrument Image



DI-02-020

### Specification/Description

#### **Deluxe dual head stethoscope**

Durable dual headed aluminium anodized, dull chestpiece, built in non chill ring



DI-02-021

#### **Stainless steel Cardiology Type stethoscope**

Stethoscope cardiology, large aluminium chest piece, smooth mirror/grain finish



DI-02-022

#### **Pediatric Stethoscope**

Stethoscope pediatric, brass chrome plated small size chestpiece



DI-02-023

#### **Regular Stethoscope**

Stethoscope regular, stainless steel, lightweight aluminium/brass chest piece external non chill ring

## Diagnostic instruments

### Instrument Image



DI-02-024

### Specification/Description

#### **General Blood Flow Doppler Ultrasound Stethoscope**

Compact, hand-held unit operates at the proper frequency (5.3MHz)

**Use:** For detecting blood flow



DI-02-025

#### **Cardiology Stethoscope**

Premium grade stainless steel, usually 22k/single head , dual head

**Use :** Enables accurate auscultation of heart, lung and blood pressure tones ergonomically



DI-02-026

#### **Bowles Stethoscopes**

Bowles stethoscopes of folding types



DI-02-027

#### **Finger tip pulse oximeter**

Fingler tip pulse oximeter with spot check monitor

## Diagnostic instruments

### Instrument Image



DI-02-028

### Specification/Description

#### Hand held pulse oximeter

Compacted and lightweight hand held pulse oximeter

**Use :** For non-invasive spot check measurement of functional oxygen



DI-02-029

#### Finger Pulse Oximeter

Weight usually 2 ounces, 2.5in long running with a battery/pulse-filling Rate is 0.5% Interference Resistance Capacity Deviation is smaller than  $\pm 1\%$

**Use :** For providing instant blood oximeter and pulse reading



DI-02-030

#### Blood Pressure Cuff Infant

Blood pressure cuff infant , nylon zipper case, adjustable gauge



DI-02-031

#### Aneroid Blood Pressure Cuff

Aneroid blood pressure cuff with manually adjusted gauge. Large adult size/child size

## Diagnostic instruments

### Instrument Image



DI-02-032

### Specification/Description

#### **Aneroid Blood Pressure Combo Kit**

Kit with Nylon case and nurse pocket organizer filled, sprauge 22", stethoscope latex free, tape measure



DI-02-033

#### **Hershman Anal Scope**

Hershman Anal Scope of size 5 inches



DI-02-034

#### **Kelly Anoscope**

Kelly Anoscope 8" overall length, 6" insertalbe prong and 3/4" in diameter stainless



DI-02-035

#### **ECG Caliper**

Chrome plated up to 7" radius, length: 3 7/8"

**Use:** For measuring ECG wavelength

## Diagnostic instruments

### Instrument Image



DI-02-036

### Specification/Description

#### **Ultrasonic Nebulizers**

Durable, stretchable double tubes ,  
ultrasonic frequency of 1.7MHz  $\pm$ 10%,  
nebulizing rate 4ml/min



DI-02-037

#### **Air Compressing Nebulizers**

Free air flux compressing pump 10L/min,  
maximum nebulizing rate 0.1ml/min with  
noise 60 dba



DI-02-038

#### **Otoscope set**

Otoscope(auroscope) set, heins type, brass  
chrome plated battery handle, lens cap, and  
three speculae



DI-02-039

#### **ENT set**

Consisting of Otoscope, with 3 speculae,  
nasal speculum, bent arm illuminator,  
tongue depressor, laryngeal mirror, and  
battery



## Diagnostic instruments

### Instrument Image

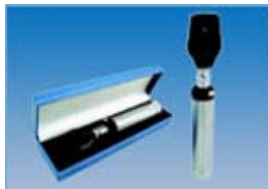


DI-02-040

### Specification/Description

#### Diagnostic set

Diagnostic set complete with othoscope  
ophthalmoscope, nasal speculu, bent arm  
illuminator, tongue depressor, laryngeal mirror



DI-02-041

#### Ophthalmoscope

Ophthalmoscope with aperture complete in  
presentation box, metal handle  
accommodates different size battery



DI-02-042

#### Sphygmomanometers, mercurial

Sphygmomanometer (B.P aparatus),  
mercurial , 300mm/hg, inflation system

Use : For measuring blood pressure



DI-02-043

#### Sphygmomanometer, Aneroid

Sphygmomanometer (B.P aparatus),  
Aneroid type, 300mm/hg, complete  
inflation system, in a pounche

## Diagnostic instruments

### Instrument Image



### Specification/Description

#### Auxiliary Thermometers

Axillary /arm pit type with temperature ranging between 25 to 42 degree celcius

DI-02-044



#### Thermomete, for Ear,

Pocket ear thermometer/infrared Ear thermometer type , 32 to 43 degree celcius

**Use :** For measuring radiant heat with the ear cavity

DI-02-045



#### Clinical Digital Thermometer

Clinical digital thermometer with automatic shutoffs, fast response , alarm signal and break resistance

DI-02-046



#### Glucose Blood Monitors

Utilizes biosensor technology, wide measurement range, average 1– 33.3 mmol/l, with test momory with or without cholestrol

**Use :** For accurate and fast blood glucose measurement

DI-02-047



# **Laboratory Instrument**

## Laboratory instruments

### Instrument Image



LA-05-000

### Specification/Description

#### Mini-shaker for immunology

Operating ambient temperature range 4– 45 degree celcius, speed range 150-1000rpm, analogue/digital timer, different capacity

**Use:** For regulated shaking of micro test plates



LA-05-001

#### Mini-rocker shaker

Fixed tilt angle 7 degree, digital/analogue timer, speed range 7.5-30rpm, ambient temperature range 4-45degree celcius

**Use :** For provide regulated gentle rocking motion for mixing of different liquid components in vessel.



LA-05-002

#### 3D mini shaker

Speed range 10-30 rpm, ambient temperature range 4-45degree. Celcius, tilt angle 7 degree , weight not more than 1kg

**Use :** For regulated three dimensional rotation of the platform



LA-05-003

#### Orbital Shaker

Two operating modes timed(1-999min), without timer, but no longer than 24 hours, operating ambient temperature of 4-45 degree celcius,speed 50-250rpm

## Laboratory instruments

### Instrument Image



LA-05-004

### Specification/Description

#### **Centrifuge/Vortex Multi spin**

Multi-spin, automatic, averagely collecting 12 tubes at a time, spin regulation: 1000-3500rpm, spintime: 1sec-99min

**Use:** For collecting microvolumes of reagents on the microtube bottom, must have instrument in PCR



LA-05-005

#### **Mini-Centrifuge/vortex Microspin**

Constant rotation speed 2400rpm, impulse working modes, Max Rcf. 700x g

**Use :** For PCR-diagnostics experment



LA-05-006

#### **Laboratory Medical Centrifuge**

Speed : 1000-3000rpm, weight, mot more than 10 kg , timer 0-30 min

**Use :** For sedimentation of cells, bacteria, yeast, formed blood elements



LA-05-007

#### **Universal water thermostat**

Temperature range up to 100°C , weight not more than 8 kg, optional flowing water cooler,

**Use :** For maintaining stable temperature

## Laboratory instruments

### Instrument Image



LA-05-008

### Specification/Description

#### Microprocessor controlled waterbath

Temperature range 25°C to 100°C, different liters stainless steel bath, temperature display,

**Use:** For chemical, pharmaceutical, medical and biological laboratory research



LA-05-009

#### Dry block thermostat

Temperature regulation range 25°C to 100°C, normal regulation accuracy 0.5°C

**Use :** For long incubation process at various temperature



LA-05-010

#### Overhead stirrer

Three type of motion, rotational/reciprocal/vibration; speed regulation range rotational 4-1000rpm, time 0-250sec, reciprocal (0-360°) vibro (0-5°),

**Use :** For stirring liquids



LA-05-011

#### Magnetic Stirrers

Speed range: 0-3000 rpm, stainless steel working plate, stand height up to 320mm

## Laboratory instruments

### Instrument Image



LA-05-012

### Specification/Description

#### UV-cleaner box

Bench top model, with timer 0-24hr/non-stop, UV-lamp-ozone free, optical transmission 99.99%,

**Use:** For disinfecting the working volume and working area during exposure



LA-05-013

#### DNA/RNA PCR-workstation

Includes UV air recirculator, UV lamp, ultraviolet and ozone free radiation, daylight lamp



LA-05-014

#### Densitometer

Light diode, wavelength 565 nm, measurement time 1 sec, precision 3%, digital indicator

**Use :** For determining concentration of cell in a fermentation process



LA-05-015

#### UV-air flow Cleaner-recirculator

Cleaning efficiency-90%, productivity 25m<sup>3</sup>/hr, with UV lamp, ozone free

**Use :** for disinfecting air in operating room clinics, waiting room in outpatient departments

## Laboratory instruments

### Instrument Image



LA-05-016

### Specification/Description

#### Chemical Cart

Shipping weight up 5-25kg, 4" diameter casters , toe tocks

**Use:** For transporting chemical bottles



LA-05-017

#### Glass ware carts

2-basket or 4 basket , 4" diameter casters, with toe locks

**Use :** For carrying glass ware , even small instruments



LA-05-018

#### Variable height bench

Heavy duty bench with adjustable height, with toe locks,



LA-05-019

#### Carboy Caddy

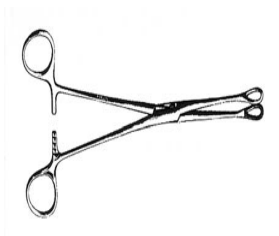
3"/4"/5" diameter casters with high pressure laminated surface with different shelf dimension but standard of 50X60cm

**Use :** For moving large corboys or cartoons safely



## Laboratory instruments

### Instrument Image



LA-05-020

### Specification/Description

#### Lab Sponge Forceps

Straight/curved 9.5", serrated jaw

**Use:** For gripping vials

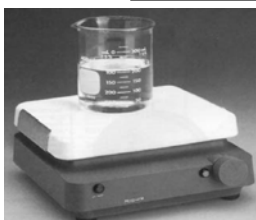


LA-05-021

#### Cap tong forceps

Standard length is 9", 18"

**Use :** For picking up vials



LA-05-022

#### Hot plate

Ceramic top, heating setting ranges from 65°C to 510°C , with timer

**Use :** For heating chemical, and other kits that require specific and constant temperature



LA-05-023

#### IV stand

2-4 hook IV stands , adjustable height from 55" to 95"

**Use :** For hanging intravenous fluid bags and infusion pumps

## Laboratory instruments

### Instrument Image



LA-05-024

### Specification/Description

#### Injection Stand

Height 30"-45", chrome plated tubular steel, heavy base offers stability

**Use:** Offers convenient way to stabilize the patient arm in the correct position for drawing blood



LA-05-025

#### Instrument stand

Height adjustable from 30" to 50", chrome plated, heavy base offers stability



LA-05-026

#### Instrument tray

Stainless tray (19"X12"X31/44" deep)



LA-05-027

#### Stainless Steel lab Carts

Stainless steel cart of standard size(19"X31"X33")

**Use :** For transporting heavy or bulky shields from room to room especially in X-ray department

## Laboratory instruments

### Instrument Image



LA-05-028

### Specification/Description

#### Electric Bench –Centrifuge

Max speed. 6000rpm, lid lock, stepless speed regulator, safety fuse, versatile rotor head and adaptors



LA-05-029

#### Laboratory microscope

4X,10X,40X, 100X objective, 10X,16X wide field eyepiece, sliding binocular head, double layer mechanical stage



LA-05-030

#### Lab stirrer

1/20hp , AC/DC motor direct driving with variable speed regulator upto maximum rpm.



LA-05-031

#### Blood Bank Centrifuge

Control panel with stepless speed control, digital speed indicator, and 0-99min digital timer, dynamic brake, zero start interlock, lid locking switch and safety cutoff

**Use :** For centrifuging larger volume centrifuge tubes, bottles, blood bags etc.

## Laboratory instruments

### Instrument Image



### Specification/Description

#### Water Bath-Thermostatic

Double walled made with stainless steel, glass wool insulated, thermostat of ambient temperature 90°C

LA-05-032



#### Fume Hood

Fume hood made of stainless steel, with heap filters to pass less than 0.3um particles, motors, fan

LA-05-033



#### Probe Sonicator

Probe size of 12mm diameter, 20mm diameter

**Use :** For tissue processing, emulsification, and formulation

LA-05-034



#### Lab Blender

Single phase AC only 14000-18000rpm, selective timer cycle from 0.1 to 5 minute for automatic blending or manual control setting.

LA-05-035

## Laboratory instruments

### Instrument Image



LA-05-036

### Specification/Description

#### Ultrasonic Cleaner

High frequency wave of about 37Khz,  
capacity 3-27liters

**Use:** For cleaning surgical instruments



LA-05-037

#### Eliza reader

Shaking modes with high and low speed,  
battery back up, running software

**Use :** For absorbance, and regression



LA-05-038

#### Plasma Freezer

Desired low temperature of  $-35^{\circ}\text{C}$ ,  
temperature controller, digital display

**Use :** For quick freezing and storing of  
plasma and related blood components



LA-05-039

#### Shaking incubator

Double walled construction with regular  
modes, replaceable air tubular heater,  
temperature controller, temperature range 5-  
 $60^{\circ}\text{C}$

## Laboratory instruments

### Instrument Image



LA-05-040

### Specification/Description

#### Laboratory Spectrometer

Wave length range 190– 1100nm, variable bandwidth of 0.5,1.0,2.0,5.0nm

**Use:** For processing data; for analytical and spectrum testing.



LA-05-041

#### Deep Freezers

Low freeze(-20°C), deep freeze (-40°C), ultra freeze (-80°C)

**Use :** For life cycle test, refrigerated storage, shelf life studies



LA-05-042

#### Hot Air Oven

Free convection electricity 220v and 50hz, chamber made of stainless steel sheet, circulating fan, temperature controller, temperature range 50°C to 180°C.

**Use :** For drying and air sterilization of medical instruments, glasses, dishes and syringes



LA-05-043

#### Vaccume oven

Standard size: 280mm diameterX380mm depth. Temperature range 5° C above ambient to 100°C/200°C/300°C

## Laboratory instruments

### Instrument Image



### Specification/Description

#### Laminar Flow

Vertical/horizontal/, aluminium framed  
HEPA filters with efficiency of 99.9% at  
0.3 microns

LA-05-044



#### Bacteriological Incubator

Microprocessor based temperature  
controller having temperature range 5°C to  
60°C, duly powder coated

LA-05-045



#### Platelet Incubator with agitator

Fixed speed of 70rpm to maintain platelets in  
continuous motion, stainless steel inner  
chamber, micro controlled temperature  
controller

**Use :** Provides ideal storing environment  
for the platelets

LA-05-046



#### BOD incubator

Double walled construction, stainless steel  
for inner chamber, glass wool/puff  
insulation, display with ON/OFF switch

**Use :** For storing sensitive culture, B.O.D test

LA-05-047

## Laboratory instruments

### Instrument Image



LA-05-048

### Specification/Description

#### Vertical /Horizontal High Pressure Steam Sterilizer Autoclave

Adjustable steam pressure 15 to 20 Psi, stainless steel outer chamber,

**Use:** For sterilizing surgical instruments



LA-05-049

#### Clean Benches

Vertical flow, adjustable air quantity and fan system, table surface made of high quality stainless steel

**Use :** For creating working environment free from microorganisms and dust; used in medicine , pharmacy and laboratories



LA-05-050

#### Biological Safety Cabinets

Different classes class I/II 10° gradient in the front panel, reserved timer for 30 min, motor , front panel alarm device, heap filter efficiency 99.99%

**Use :** provides clean air



LA-05-051

#### Freezer

Adjustable temperature control range +2°C to +8 °C



## Laboratory instruments

### Instrument Image



### Specification/Description

#### Pipette shaker

Pipette shaker with timer and average rpm of more than 2000.

LA-05-052



#### Platelet Rotator

Platelet rotator with baskets, built in tachometer with different speed

LA-05-053



#### Serology Rotator

Rotator with constant timer rotation such as RPR, VDRL, latex tests

LA-05-054



#### Immersion Water Bath

Water bath size of different in liters, mostly with open reservoir and immersion circulator

LA-05-055

**Use :** For heating temperature sensitive samples

## Laboratory instruments

### Instrument Image



LA-05-056

### Specification/Description

#### Heamatology analyser

Fully automatic start up, self check system, automatic sampling with probe wipe and screen display

Use: For measuring HB, RBC, WBC, platelets, MPV, PDW, RDW



LA-05-057

#### CD4/CD8 count

Table top model, with automated data analysis, data display system and provision for print out.



LA-05-058

#### Clinical chemistry analyzer

Fully automated, bench top which utilizes multi-wavelength reflectance detection and film based chemistry

Use: For detection and quantification of blood chemistries



LA-05-059

#### Urin chemistry analyser

With screen display, detection in urine samples via high pressure liquid chromatography.



# **Imaging Instrument**

## Medical Imaging instruments

### Instrument Image

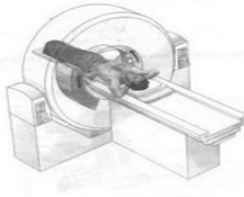


Ima-11-000

### Specification/Description

#### **X-Ray machine**

X-ray generator, X-ray tube, patient table ,facility of positioning aid, control unit



Ima-11-001

#### **Computed Tomography (CT) scanner**

0.5 sec to 1.5 pitch factor, high/low contrast resolution, data acquisition system, monitors, operating consoles,communication system



Ima-11-002

#### **Magnetic resonance imaging (MRI)**

A static magnetic field(0.2/0.3tesla), and RF transmitter and receiver and three orthogonal, controllable magnetic gradients.



Ima-11-003

#### **Ultrasound**

Displays modes , scanning modes, probe interface, image memory; optional equipments trolley, videoprinter, biopsy attchement



# **General Surgery Instruments**

## General Surgery instruments

### Instrument Image



GS-04-000

### Specification/Description

#### **Fehland Intestinal Clamp**

Fehland Intestinal clamp of size 10"



GS-04-001

#### **Brunner Intestinal Clamp**

Brunner intestinal clamp of size 9.5"



GS-04-002

#### **Atrauma Intestinal**

Atrauma intestinal of size 7"



GS-04-003

#### **Collin Intestinal Clamp**

Collin intestinal clamp of size 9"

## General Surgery instruments

### Instrument Image



GS-04-004

### Specification/Description

#### **PAYR Clamp**

PAYR clamp of size 15cm, 21cm, 29cm , 35cm



GS-04-005

#### **Appendectomy Clamps**

Appendectomy clamps of size 12cm, 4.75"



GS-04-006

#### **Spur Crashers**

Spur crashers of size 13.5cm, 5.25"



GS-04-007

#### **Mintra Intestinal Clamp**

Non- traumatic mantra intestinal clamps of size 24cm,9.5"; 30cm,12", 25cm, 10"; 28cm,10.75".

## General Surgery instruments

### Instrument Image



GS-04-008

### Specification/Description

#### Micro Scissors

Size 12 cm, 13 cm, 15 cm, 18.5cm



GS-04-009

#### Delicate Scissors

Straight/Curved, Sharp/blunt , size 9cm, 9.5cm, 11cm ,12cm, 15cm



GS-04-010

#### Dissecting Scissors

Straight/sharp, curved/sharp, straight/blunt, curved/blunt, size 11cm, 13cm, 18cm



GS-04-011

#### Surgical and Dissecting Scissors

(Straight, Curved), 14.5cm, 15.5cm, 17cm , 18cm, 20cm



## General Surgery instruments

### Instrument Image

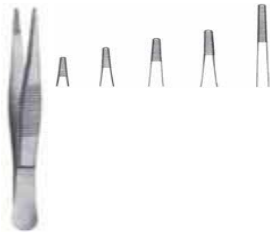


GS-04-012

### Specification/Description

#### Micro Suture Tying Forceps

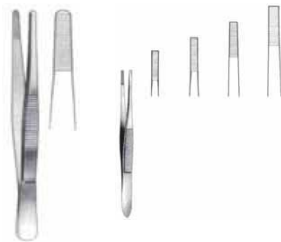
Length 11cm, 11.5cm, 13.5cm, 14cm, 15.5cm, 18cm, 18.5cm width 0.2mm, 0.3mm, 0.4mm, 0.5mm, 0.8mm



GS-04-013

#### Delicate Dissecting Forceps

size 11cm, 13cm, 14.5cm, 16cm, 18cm, 30.5cm



GS-04-014

#### Dissecting Forceps

Size 14.5cm, 15.5cm, 17cm, 17.5cm, 18cm, 20cm



GS-04-015

#### Atraumatic Forceps

Width 1.5mm, 2mm, 2.7mm, length 15cm, 20cm, 22.5cm, 23cm, 23.5cm angled 20 degree, 40 degree

## General Surgery instruments

### Instrument Image



GS-04-016

### Specification/Description

#### Organ and Tissue Grasping Forceps

Size 15.5cm (4x5 teeth, 5x6teeth ), 19cm/ 5x6teeth, 20cm /6x7 teeth



GS-04-017

#### Dressing-Organ and Tissue Forceps

Length 11cm, 12cm, 13.5cm,14.5cm , 15cm, 18cm, 18.5cm ,20cm, 24cm,



GS-04-018

#### Delicate Tissue Forceps

Length 11cm, 12cm, 13.5cm,14.5cm , 15cm, 18cm, 18.5cm ,20cm, 25cm, 30cm



GS-04-019

#### Delicate Haemostatic Forceps

Size 10cm, 12.5cm,14cm, 16cm, 18.5cm,20cm

## General Surgery instruments

### Instrument Image



GS-04-020

### Specification/Description

#### Jumbo Abdomenal Retractor

Stainless steel, with 5.5" wide , 0.25" diameter and 3" long



GS-04-021

Wartenberg Neuro

Pinwheel, Stainless steel



GS-04-022

#### Poole Suction Tube

Poole Suction tube

30fr, straight, Chrome Plated



GS-04-023

#### Yankauer Suction Tube

Yankauer Suction Tube

Slip on tip, Chrome Plated, 10 3/4"

## General Surgery instruments

### Instrument Image

### Specification/Description



**Scissors, Straight,Blunt,stainless steel**

O.R Scissors, Straight, blunt, stainless steel,(4.5", 5",5.5",6",6.5")

GS-04-024



**Scissors, Curved, Blunt, Stainless Steel**

O.R.Scissors, Curved, Blunt,stainless steel (4.5",5",5.5",6",6.5")

GS-04-025



**Scissors,curved, Sharp/Sharp,Stainless Steel**

O.R.Scissors,Curved,Sharp/Sharp, stainless Steel(4.5",5",5.5",6",6.5")

GS-04-026



**Scissors, Straight,Sharp/Blunt,Stainless steel**

O.R.Scissors, Straight, Sharp/Blunt, stainless Steel(4.5",5",5.5",6",6.5")

GS-04-027

## General Surgery instruments

### Instrument Image

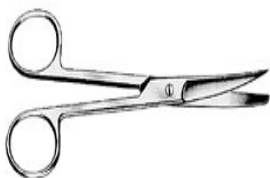
### Specification/Description



GS-04-028

**scissors, straight, sharp/sharp, stainless steel**

O.R. scissors, straight, sharp/sharp, stainless steel (4.5", 5", 5.5", 6", 6.5")



GS-04-029

**Scissors, curved, Sharp/Blunt, Stainless steel**

O.R. Scissors, Curved, Sharp/Blunt, stainless steel (4.5", 5", 5.5", 6", 6.5")



GS-04-030

**Deaver Scissors**

Deaver Scissors, Curved, Sharp/Blunt (Sharp/sharp), Stainless steel 5.5"



GS-04-031

**Mayo Scissors**

Mayo Scissors, 5.5", 6.75", 9" (Straight, Curved), Stainless Steel

## General Surgery instruments

### Instrument Image

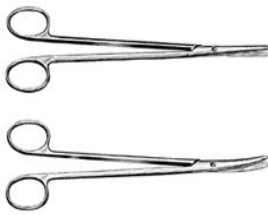


GS-04-032

### Specification/Description

#### Mayo-Stille Scissors

Mayo-Stille Scissors,(Straight,curved ),  
Stainless Steel ,(5.25", 6.75")



GS-04-033

#### Metzenbaum Scissors

Metzenbaum Scissors, Blunt,5.75",  
7",9",10" (Curved),8" (Straight ,Curved)



GS-04-034

#### Stevens Tenotomy Scissors

Stevens Tenotomy Scissors, (Straight,  
Curved),Sharp/Sharp(Blunt/Blunt), stainless  
Steel,4.5"



GS-04-035

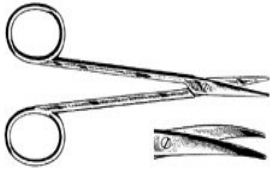
#### Iris Scissors

Iris Scissors,(fine), 3.5" (Straight,curved),  
4.5" (Straight, Curved), Stainless Steel

## General Surgery instruments

### Instrument Image

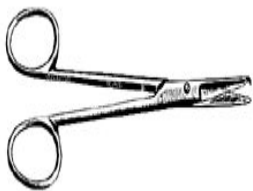
### Specification/Description



#### **Strabismus Scissors**

Strabismus Scissors, (Straight,Curved),  
Stainless Steel, 4.75"

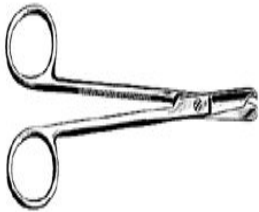
GS-04-036



#### **Spencer Stitch Scissors**

Spencer Stitch Scissors, Fine, Stainless steel  
,(3.5",4.5")

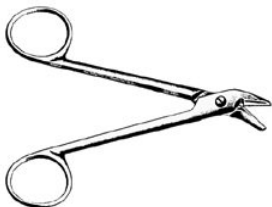
GS-04-037



#### **Littauer Stitch Scissors**

Littauer Stitch Scissors, Stainless steel,5.5"

GS-04-038



#### **Universal Suture Scissors**

Universal Suture Scissors, stainless  
steel,4.75"

GS-04-039

## General Surgery instruments

### Instrument Image

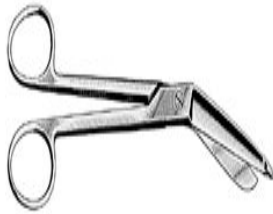
### Specification/Description



#### Braun Episiotomy Scissors

Braun Episiotomy Scissors, stainless steel, 5.5"

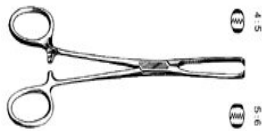
GS-04-040



#### Lister Bandage Scissors

Lister Bandage Scissors, stainless steel, (3.5", 4.5", 5.5", 7.25", 8")

GS-04-041



#### Allis Tissue Forceps

Allis Tissue Forceps, stainless Steel, (6", 4x5 teeth), (6", 5x6 teeth), (9.5", 5x6 teeth)

GS-04-042



#### Haemostatic Forceps

16cm, 18.5cm, 20cm, 22.5cm, 24cm

GS-04-043



## General Surgery Instruments

### Instrument Image

### Specification/Description



#### US Pattern Gauze Scissors

US Pattern Gauze Scissors, stainless steel, 8"

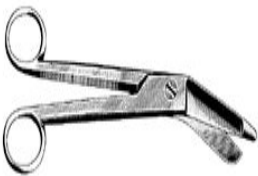
GS-04-044



#### Bruns Shears

Bruns Shears, (Smooth, Serrated ) stainless steel, 9"

GS-04-045



#### Esmarch Gauze Shears

Esmarch Gauze Shears, stainless steel, (8", 9")

GS-04-046



#### Thumb Dressing Forceps

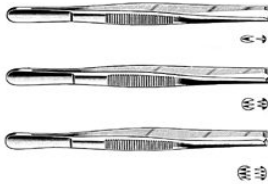
Thumb Dressing Forceps, Stainless steel, (4.5", 5", 5.5", 6", 5"-narrow jaw, 5.5"-narrow jaw)



GS-04-047

## General Surgery Instruments

### Instrument Image

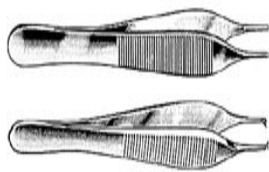


### Specification/Description

#### Tissue Forceps

Tissue Forceps, Stainless Steel, 4.5", 5", 5.5", 6" (1x2teeth), 5" (2x3teeth), 5.5", 6" (3x4teeth)

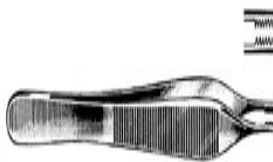
GS-04-048



#### Adson Dressing Forceps

Adson Dressing Forceps, Stainless steel, 4.75" (1x2teeth, Serrated)

GS-04-049



#### Adson Brown Forceps

Adson Brown Forceps, stainless steel, 4.75", (7x7teeth)

GS-04-050



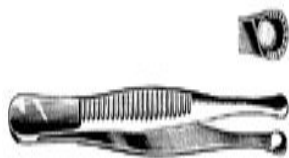
#### Cushing Dressing Forceps

Cushing Dressing Forceps, stainless steel, 6.75"

GS-04-051

## General Surgery Instruments

### Instrument Image

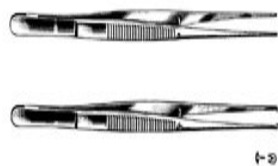


GS-04-052

### Specification/Description

#### Russian Pattern Forceps

Russian Pattern Forceps, stainless steel,(6",10")



GS-04-053

#### Semken Forceps

Semken (Dressing,Tissue) Forceps, Fine ,Stainless steel,4.75"(Serrated, 1x2teeth)



GS-04-054

#### Splinter Forceps

Splinter Forceps , Fine, stainless steel,(3.5",4",4.5")



GS-04-055

#### Feilchenfeld Forceps

Feilchenfeld Splinter Forceps,stainless steel,(3",4.5")

## General Surgery Instruments

### Instrument Image

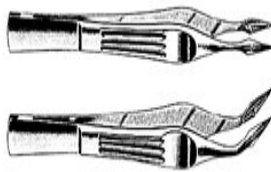


GS-04-056

### Specification/Description

#### **Virtus (Ralk) Splinter Forceps**

Virtus(Ralk) Splinter Forceps, stainless steel, 6"



GS-04-057

#### **Carmalt Splinter Forceps**

Carmalt Splinter Forceps, (Straight, curved), Stainless steel, 4.25"



GS-04-058

#### **Hartmann Mosquito Forceps**

Hartmann Mosquito Forceps, (Straight, curved), stainless steel, 3.5"



GS-04-059

#### **Halstead Mosquito Forceps**

Halstead Mosquito Forceps, Straight, stainless steel, 5"

## General Surgery Instruments

### Instrument Image

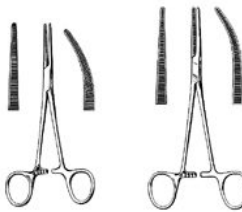


GS-04-060

### Specification/Description

#### Kelly Forceps

Kelly Forceps, (Straight, curved), stainless steel, 5.5"; Kelly (Rankin) Forceps, 6.25"



GS-04-061

#### Crile Forceps

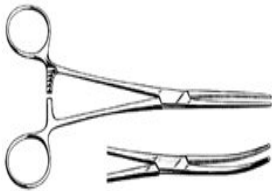
Crill Forceps, (Straight, Curved), Stainless steel, 5.5"; Crile (Rankin) (Straight, Curved), 6.25"



GS-04-062

#### Providence Hospital Forceps

Providence Hospital Forceps, Curved, stainless steel, 5.5"



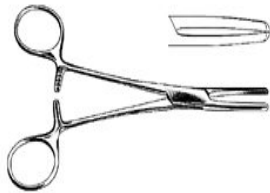
GS-04-063

#### Rochester Pean Forceps

Rochester Pean Forceps, stainless steel, 5" (Straight, curved), 6.25" (Straight), 7.25" (Straight, Curved)

## General Surgery Instruments

### Instrument Image

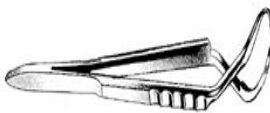


GS-04-064

### Specification/Description

#### **Tube Occcluding Forceps**

Tube Occcluding Forceps, Stainless steel, 5.75"



GS-04-065

#### **Jones Towel Clamps**

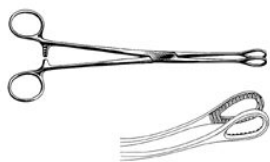
Jones Towel Clamps, stainless steel, 3.5"



GS-04-066

#### **Bozeman Forceps**

Bozeman Forceps, S-curved, stainless steel, 10.5", Bozeman Douglas Forceps 10"



GS-04-067

#### **Ballenger Forceps**

Ballenger Forceps, Straight, (Smooth, Serrated), stainless steel, 7"

## General Surgery instruments

### Instrument Image

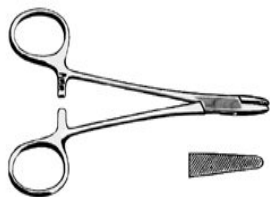


GS-04-068

### Specification/Description

#### **Foerster Forceps**

Foerster Forceps, Straight, stainless steel, 10" (Smooth, Serrated)



GS-04-069

#### **Baumgartner Needle Holder**

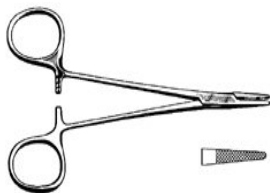
Baumgartner Needle Holder, stainless steel, 5" — 5" (Tungsten Carbide Jaw)



GS-04-070

#### **Crile Wood Needle Holder**

Crile Wood Needle Holder, stainless steel, 6" — 6" (Tungsten Carbide jaw)



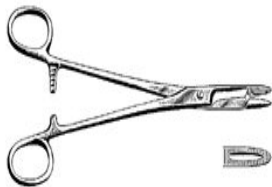
GS-04-071

#### **Halsey Needle Holder**

Halsey Needle Holder, stainless steel, 5" smooth jaw, 5" Tungsten Carbide jaw

## General Surgery instruments

### Instrument Image

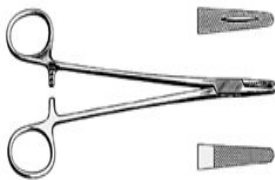


GS-04-072

### Specification/Description

#### **Olsen Hegar Needle Holders**

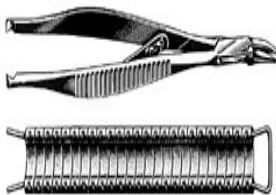
Olsen Hegar Needle Holder, stainless steel(5.5",6.5"),5.5"(Tungsten Carbide jaw)



GS-04-073

#### **Mayo Hegar Needle Holder**

Mayo Hegar Needle Holder, stainless steel,5",5.5",6",7"—5.5",6",7"(Tungsten Carbide jaw)



GS-04-074

#### **Michel Suture Clip**

Michel Suture Clip removing forceps,stainless steel,4.75"

Michel Suture Clip, stainless steel.(16mm.22mm). 100 per box



GS-04-075

#### **Frazier Skin Hook**

Frazier Skin Hook, sharp stainless steel, 6"



## General Surgery instruments

### Instrument Image



GS-04-076

### Specification/Description

#### Anesthesia machine

With vaporizer, CO<sub>2</sub> absorber, ventilator, O<sub>2</sub> and N<sub>2</sub> O flowmeters, gas machines



GS-04-077

#### Defibrillators

High capacity battery, patient contact indicator, lightweight, recorder

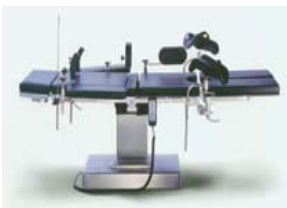
**Use :** Offers superior capture at lower mean threshold, reducing muscle artifact



GS-04-078

#### Electrosurgical Generator

Three mode of operation: cut mode, blended cut mode, pinpoint coagulation.



GS-04-079

#### Operating Table

Table top permitting maximum full body, with head set, arm rests, shoulder and body supports, lateral support.

**Use :** Provides high operation safety and precise patient positioning

## General Surgery instruments

### Instrument Image



GS-04-080

### Specification/Description

#### **Surgical Light**

9500 foot candle per head at one meter,  
Four setting of electronic dimming with  
output of 100%,85%,70%,and 50%



GS-04-081

#### **Examination Light**

With elliptical reflector, footcandle at 6000  
output at one meter distance, 914mm focus  
distance



GS-04-082

#### **Operating Room Lights**

Center mount with one and two surgical  
lights, 9000 foot candles per head



GS-04-083

#### **ENT microscope**

Three step magnification, 48mm  
interchangeable objective lens. Halogen  
light source.

## General Surgery instruments

### Instrument Image



GS-04-084

### Specification/Description

#### Operating lamp

Operating lamp with 12 reflectors



GS-04-085

#### Operating lamp with 9 reflector

Operating lamp with 9 reflector



GS-04-086

#### Diathermy machine

Monopolar/bipolar . Combining cut and coagulation , hand or foot controlled or microprocessor based control



GS-04-087

#### ECG machine

With 12 lead ECG , display of ECG waveforms, both for adult and child

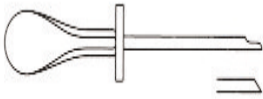


# ENT Instruments

## ENT instruments

### Instrument Image

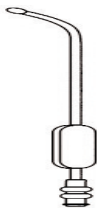
### Specification/Description



#### **Trocar and Cannula**

Outer diameter of 5mm, cannula length 85cm , bill shaped beak

EN-03-000



#### **Eicken Antrum Cannula**

3.0mm/4.0mm outer diameter, short curved/long curved, 150mm,

EN-03-001



#### **Antrum Curette**

Round, small size, 190mm;oblong, small size, 190mm; 190mm, large size, oblong

EN-03-002



#### **Freer Elevator**

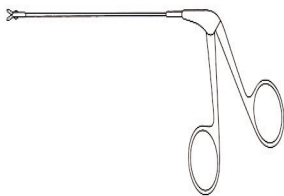
Double-ended, 200mm

EN-03-003

## ENT instruments

### Instrument Image

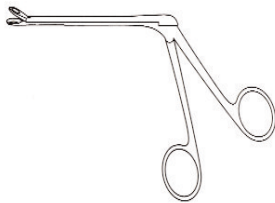
### Specification/Description



#### **Biopsy and Grasping Forceps**

2.5mm oval cupped jaw, sheath 1.5mm,  
working length 150mm

EN-03-004



#### **Blakesley Nasal Forceps**

Straight, 3.5x8.0mm cup(4.0x10.5mm,  
5.0x10.5mm), working length 110mm

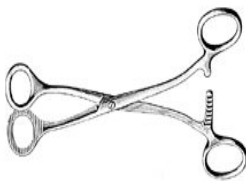
EN-03-005



#### **Struempel-Voss Nasal Forceps**

45 degree upturned, extra delicate, working  
length 110mm

EN-03-006



#### **Collin Tongue Forceps**

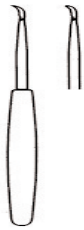
Collin tongue Forceps, child, 6 1/4", stainless  
steel

Collin Tongue Forceps, Adult, 7", stainless

EN-03-007

## ENT instruments

### Instrument Image



EN-03-008

### Specification/Description

#### Sickle knife

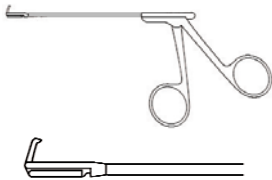
Pointed tip, 190mm; rounded tip, blunt, 190mm



EN-03-009

#### Septum needle

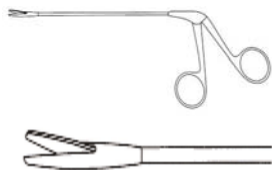
Angular, Luer-lock, 0.8mm



EN-03-010

#### Antrum Punch

Angled left/right backward cutting, pediatric, working length 100mm,



EN-03-011

#### Nasal Scissors

Straight/curved right/curved left, serrated blades, working length 130mm

## ENT instruments

### Instrument Image

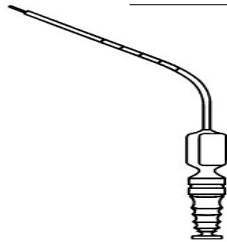


EN-03-012

### Specification/Description

#### Hartmann Nasal Spectrum

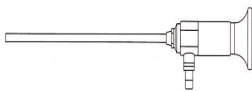
Small/Large, 150mm, working length



EN-03-013

#### Frazier Suction Tube

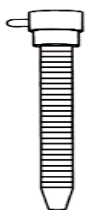
6 charr/8charr/10charr: calibrations marked at 50-90mm, working length 100mm



EN-03-014

#### Telescope

Straight forward/oblique/lateral wide angle (0,30,70 degree), 2.7mm diameter, working length(105mm, 140mm, 190mm)



EN-03-015

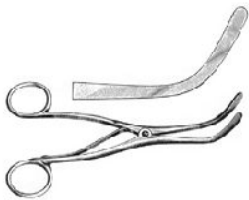
#### Telescope Handles

Round, 65mm length for use with telescope: 70-966, 70-970,70-974; round/flat, 110mm length for use with forward-oblique and lateral telescope



## ENT instruments

### Instrument Image



EN-03-016

### Specification/Description

#### **Trousseau Trachea Dilator**

Trousseau Trachea Dilator, stainless steel, 5.5"



EN-03-017

#### **La-Borde Trachea Dilator**

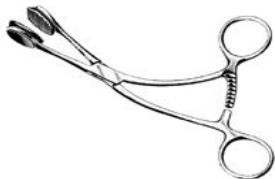
La-Borde Trachea Dilator, stainless steel, 5.5"



EN-03-018

#### **Cowthorne Micro Aural Scissors**

Crocodile action, black finish, effective length 7.5mm, straight



EN-03-019

#### **Young tongue Forceps**

Young tongue forceps, 6 1/4", Stainless steel

## ENT instruments

### Instrument Image



EN-03-020

### Specification/Description

#### Tongue Depressors

Mayo tongue depressors, Bruening's tongue depressors-fenestrated



EN-03-021

#### Nose/ear speculum

Nose speculum adjustable size (0,2), set of 3 ear speculum diameter of 4, 5, 6 mm



EN-03-022

#### Nose and Ear Forceps and Scissors

Ear forceps of size 12cm, 14cm; scissors of 18cm



EN-03-023

#### Suction Cannulas

Frazer nose/ear suction cannula 18cm(diameter of 2,3,4,5mm); Rosen ear suction cannula 55mm(diameter of 1.5, 3mm)

## ENT instruments

### Instrument Image



EN-03-024

### Specification/Description

#### **Hooks-loops**

Lucae hook(fine)-14cm, billeau loop 16cm, swab holder 16cm



EN-03-025

#### **Laryngeal mirror**

Laryngeal mirror having diameter ranging from 10mm to 26mm



EN-03-026

#### **Aural Speculum**

Pneumatic speculum set complete with plain glass, speculum, rubber tube and bulb size ranging from from 6mm-10mm



EN-03-027

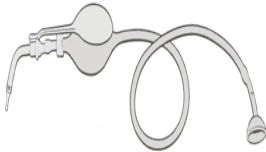
#### **Aural Scissors**

Crocodile action, black/matt finish, effective length 7.5cm, extra fine, straight/curved

## ENT instruments

### Instrument Image

### Specification/Description



#### Bacon Syringe

Complete syringe will include: nozzle, spoon, rubber bulb and tubing

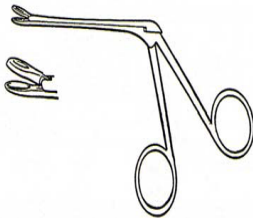
EN-03-028



#### Aural Syringe

Capacity of (2oz, 3oz, 4oz) , Chrome plated with (pipes/wings)

EN-03-029



#### Aural Forceps

Aural forceps : fine fenestrated blade(serrated jaw), stainless steel, effective length 5cm,7.5cm,14.5cm

EN-03-030



#### Micro Aural Forceps

Crocodile action, black/matt finish, effective length 7.5cm (smooth jaw/cup jaw/serrated jaw)(straight/angled)

EN-03-031

## ENT instruments

### Instrument Image



EN-03-032

### Specification/Description

#### Trachea dilating Forceps

Trachea dilating forceps for child, 10.5cm;  
for adult 14cm



EN-03-033

#### Dissecting forceps

Serrated 1:2 teeth, size ranging from 12cm–  
25cm



EN-03-034

#### Sinus forcep

Sinus forcep serrated jaw, box joint , size  
ranging from 12.5cm– 20cm



EN-03-035

#### Artery Forcep

Crile, serrated jaw, box joint,  
straight/curved(14cm, 16cm, 18cm)

## ENT instruments

### Instrument Image

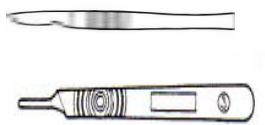


EN-03-036

### Specification/Description

#### Multi-Cut Utility Scissors

Serrated blade, overall length 18cm



EN-03-037

#### Scalpels

Scalpels solid forged, with (blade ranging from 2.5cm– 5.5cm)



EN-03-038

#### Bandage Scissors

Bandage scissors, one probe, ended probe, overall length 18cm



EN-03-039

#### Mayo Needle Holder

Needle holder box joint, serrated jaws, size ranging from 12.5cm - 30cm

## ENT instruments

### Instrument Image



EN-03-040

### Specification/Description

#### Percussors

National hospital pattern, 5cm head, nylon handle, 35cm, 19.5cm



EN-03-041

#### Dressing Scissors

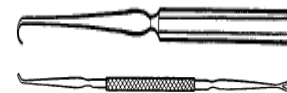
Dressing scissors straight/curved, sharp/sharp, blunt/sharp, size ranging from (10cm– 20cm)



EN-03-042

#### Cawthorne Middle Ear Hook

Middle ear hook black finish/matt finish, 16.5cm– Hook,(slight curve, medium curve, full curve, double curve, angled, retro curve, straight)



EN-03-043

#### Wax Hook

Wax hook sharp/blunt, 14cm,18cm; hook and scoop

## ENT instruments

### Instrument Image

### Specification/Description



#### Tuning forks

Tuning fork Pitch (C0-128dv,C1-256dv,C3-1024,C4-2048,C5-4096)

EN-03-044



#### Cautery Burners

Cautery Burners Point (A,B,C,D,F,G,I,R,S,M,N,SP,LP,O,CP), Straight, length 12.cm, angled, length 12.5cm

EN-03-045



#### Probes

Probe single/double ended size ranging from 9cm, 14cm, 18cm

EN-03-046



#### Suction tube

Chrome or stainless steel or insulated (6fg, 9fg), size small, medium, large, extra large

EN-03-047



## ENT instruments

### Instrument Image



EN-03-048

### Specification/Description

#### Nasal Dilator

Nasal dilator of 11mmx15mm,  
12mmx16mm, 13mmx17mm,  
14mmx18mm, 15mmx19mm



EN-03-049

#### Tracheostomy

Tracheostomy of from 14fg to 36fg



EN-03-050

#### Eustacian Catheters

Eustacian catheters 7fg-2mm, 8fg-2.5mm,  
9fg-3mm, 10fg-4mm, 11fg-5mm



EN-03-051

#### Otoscope

Closed head design particularly suited to  
pneumatic testing, mostly 2.5x magnifying  
lens,

## ENT instruments

### Instrument Image



### Specification/Description

#### Meyhoefer Curette

Meyhoefer Curette, stainless steel, (1.5mm size 0, 1.8mm size 1, 2.0mm size 2, 2.5mm size 3)

EN-03-052



#### Dix Needle and Spud

Dix Needle and Spud, stainless steel, reversible handle

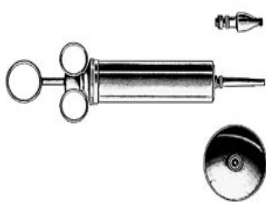
EN-03-053



#### Hartmann Ear Specula

Hartmann Ear Specula, Chrome plated, set of 4

EN-03-054



#### Metal Ear Syringe

Metal Ear Syringe, with shield and 2 tips, chrome plated (2 oz, 3 oz, 4 oz)

EN-03-055

## ENT instruments

### Instrument Image



EN-03-056

### Specification/Description

#### **Wilde Ear Forceps**

Wilde Ear Forceps, angled, serrated, stainless steel, 4.75"



EN-03-057

#### **Lucae Ear Forceps**

Lucae Ear Forceps, stainless steel, bayonet, 5.5"



EN-03-058

#### **Hartmann Ear Forceps**

Hartmann Ear Forceps, stainless steel, serrated, 5.5"



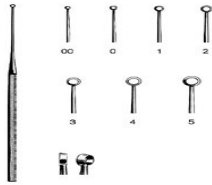
EN-03-059

#### **Hartmann Alligator Forceps**

Hartmann Alligator Forceps, stainless steel, serrated (3.5", 5.5")

## ENT instruments

### Instrument Image



EN-03-060

### Specification/Description

#### Buck Ear Curette, Sharp

Buck Ear Curette, (Straight/Blunt ), Sharp, stainless steel,(size 00,size 0,size 1 , size 2, size 3,size 4, size 5)



EN-03-061

#### Billeau Ear Loop

Billeau Ear Loop, (size 1, small),(size 2, medium), (size 3, large ), stainless steel



EN-03-062

#### Vienna Nasal Speculum

Vienna Nasal Speculum, double spring action, stainless steel, (Child, adult)



EN-03-063

#### Doyen Jansen Mouth Gag

Doyen Jansen Mouth Gag, adult,stainless steel,5.5"

## ENT instruments

### Instrument Image



EN-03-064

### Specification/Description

#### Laryngoscope Head Mirror

Ball and Socket fitting, adjustable webbing headband and with 9cm diameter mirror



EN-03-065

#### Rhinoscopic

Rhinoscopic of diameter ranging from 6mm to 16mm



EN-03-066

#### Tweezers, College Dressing

Curved, serrated jaw/plain smooth jaw, 15cm,



EN-03-067

#### Head universal table

Universal table for ENT operation



# Ophthalmic Instrument

## Ophthalmic instruments

### Instrument Image



Opt-08-000

### Specification/Description

#### Slit lamp

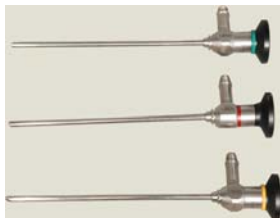
Binocular, three step magnification  
10x,20x,30x, slit image rotation 0° to 180°  
,with halogen lamp,



Opt-08-001

#### Surgical Microscope

Five step magnification, binocular 45°  
inclined viewing, total magnification 4x,6x,  
10x, 16x, 25x.



Opt-08-002

#### Sinoscope

4mm (0°,30°,70°) working length 175mm  
wide angle



Opt-08-003

#### Photo Slit Lamp

Binocular, 10x,16x,24x; wide field 12.5x,  
tilting illumination 5° to 20°

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### Blade breakers and holders

12mm, straight, smooth, flat jaws. Flat, serrated handle with spring lock. Overall length 108mm

Opt-08-004



#### Micro Blade Holder

10mm, smooth, thin, flat jaws. Round handle with twist lock. Overall length 103mm.

Opt-08-005



#### Stainless steel breakable blades

Double edge, stainless steel blades , individually wrapped.

Opt-08-006



#### Swiss Blade breaker and holder

13mm, conical , smooth jaws. Round handle with end lock. Overall length 120mm

Opt-08-007



## Ophthalmic instruments

### Instrument Image



Opt-08-008

### Specification/Description

#### **Castroviejo Caliper**

Straight/curved shaft graduated in one millimeter increment from 1 to 20mm. overall length 55mm



Opt-08-009

#### **Caliper**

Graduated in one millimeter increment from 0mm to 80mm and 1/16inch increment up to 3 inches. Straight shafts.



Opt-08-010

#### **Mendez Degree Gauge**

Ring gauge calibrated every 10° from 0° to 180° . Flat/round, serrated/knurled handle. Overall length 108mm



Opt-08-011

#### **Stainless Steel Flexible Ruler**

Measures up to 152mm in one millimeter increments and up to 6 inches in 1/32 inch increment

## Ophthalmic instruments

### Instrument Image



### Specification/Description

#### **Thorpe Caliper**

Graduated in one millimeter increment from 0 mm to 80mm , angled shafts with angled tips. Overall length 122mm

Opt-08-012



#### **Air Injection Cannula**

Cannulated shaft angled 5mm from shaft tip. Shaft length 23mm. 27/30 gauge cannulated shaft

Opt-08-013



#### **Retrobular needle**

Straight, cannulated shaft with sharp, beveled tip. Shaft length 36mm. 23/25 gauge

Opt-08-014



#### **Irrigating Cannula**

22 gauge, cannulated shaft with "J" shaped, blunt tip and front opening. Shaft length 28mm. Straight/angled shaft

Opt-08-015

## Ophthalmic instruments

### Instrument Image



Opt-08-016

### Specification/Description

#### **Anterior Chamber Irrigator**

Set includes autoclaveable silicone bulb, cannula adaptor and 19 gauge angled cannula.



Opt-08-017

#### **Double-Barrel Cannula**

Angled, 25 gauge, cannulated at working end. Cannula shaft length 22mm. Overall length 370mm



Opt-08-018

#### **Irrigating-aspirating cannula**

Double-barreled irrigation-aspiration unit, 23 gauge. Side irrigation and aspiration ports. Shaft length 33mm. Overall length 445mm



Opt-08-019

#### **Hydrorodissection cannula**

Gently curved, 25 gauge, cannulated shaft with blunt tip. Shaft length 19mm.

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### **Cannulated Cystotome**

22 gauge, cannulated shaft, shaft length 32 mm. Sharp/blunt tip

Opt-08-020



#### **Kratz cystotome**

22 gauge, formed, cannulated shaft with sharp tip. 5mm length from hub to angle, 12mm from angle to shaft tip.

Opt-08-021



#### **Cortex Extractor**

Curved, 23 gauge, cannulated shaft with aspiration port set at 45°. Shaft length 13mm

Opt-08-022



#### **Lieppeman Cystotome**

Micro cystotome with angled 22 gauge cannulated shaft. Supplied with guard to protect sharp, cutting tip. Shaft length 11mm

Opt-08-023

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### Male to Male Cannula Adaptor

Overall length 35mm

Opt-08-024

**Use:** For connecting aspiration cannulas with aspiration tubing.



#### Vitreous Aspirating Needle

18 gauge cannulated shaft with blunt tip. Marking on shaft at 5mm, 10mm and 15mm. Length 25mm.

Opt-08-025



#### Coaxial irrigating-aspirating system

Overall length 65mm

Opt-08-026



#### Mcintyre inner cannula

23 gauge, cannulated shaft. Shaft length 46mm. 0.2mm/0.3mm side port. Front opening.

Opt-08-027

## Ophthalmic instruments

### Instrument Image



Opt-08-028

### Specification/Description

#### **Mcintyre Outer Cannula**

19 gauge cannulated shaft. Shaft length 17mm. Truncated tip with dual 0.5mm side openings. Straight/blunt tip front opening

**Use:** For connecting aspiration cannulas with aspiration tubing.



Opt-08-029

#### **Lacrimal Cannula**

23 gauge, cannulated shaft with blunt tip and side port. Shaft length 46mm



Opt-08-030

#### **Double sharp cystotome**

22, gauge, cannulated shaft with sharp front and back edge. Shaft length 34mm.



Opt-08-031

#### **Reinforced lacrimal cannula**

23 gauge , reinforced, cannulated shaft. Shaft length 30mm.

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### **Cortex extractor**

Curved, 23 ga, cannulated shaft with side aspiration port. Shaft length 12mm/21mm

Opt-08-032



#### **Two way air bubble removal cannula**

Curved, 21 gauge, cannulated shaft at working end. Cannula shaft length 37mm. Silicone tubing 30cm . Overall length 34cm

Opt-08-033



#### **Chymotryspin cannula**

Curved, 25 gauge, cannulated shaft with smooth bulbous tip. Shaft length 31mm

Opt-08-034







#### **Suture Placement Marker**

8 blade radial marker with 8mm center opening. Flat , smooth handle. Overall length 105mm

Opt-08-035

## Ophthalmic instruments

Instrument Image	Specification/Description
 <p>Opt-08-036</p>	<p><b>Optical Zone Marker</b></p> <p>Ring marker with extra fine cross hairs. Overall length 103mm. Round , knurled handle.</p> <p><b>Use:</b> For locating optical center</p>
 <p>Opt-08-037</p>	<p><b>Radial Marker</b></p> <p>Blade marker with inner blade diameter of 3mm. Round, knurled handle. Overall length 105mm. (4,8)bladed radial marker</p>
 <p>Opt-08-038</p>	<p><b>Arcuate marker</b></p> <p>Ring marker with marking blades set at 10°. Round, knurled handle. Impresses a 360° line pattern. Overall length of 96mm.</p>
 <p>Opt-08-039</p>	<p><b>Double corneal ruler</b></p> <p>Round , knurled handle. Overall length 99mm. 6-8 mm optic zone/5– 7 optic zones</p> <p><b>Use :</b> For visual axis alignment</p>



## Ophthalmic instruments

### Instrument Image

### Specification/Description



Opt-08-040

#### **Iris and IOL hook**

Straight shaft with 0.2mm, angled tip. Round, knurled handle. Overall length 117mm.

**Use:** For marking visual axis and reopen RK incisions



Opt-08-041

#### **Foreign body curette**

Flat, smooth handle. Overall length 126mm. 0.5mm/1.0mm diameter cup



Opt-08-042

#### **Chalazion Curette**

Ring style curette. Round handle. Overall length 131mm. Diameter ring size (1.1,2.2,3.3,1.5,1.7,2.5)mm



Opt-08-043

#### **Curved Capsule Forceps**

Standard, curved shafts with 2.75mmx1.35mm cupped tips. Wide, flat, serrated handle with iris stop. Overall length 108mm.

## Ophthalmic instruments

### Instrument Image



Opt-08-044

### Specification/Description

#### **Castroviejo Cross action capsule forceps**

45° angled shafts with 2.75mmx1.35mm cupped tips. Wide, flat, serrated, cross action handle. Overall length 108mm.



Opt-08-045

#### **Nuclear Fragment Forceps**

Angled shafts with conical, serrated jaws. Standard, fenestrated handle. Overall length 113mm.

**Use :** For extracting lens nucleus fragments through a small incision



Opt-08-046

#### **Capsule-Foreign body forceps**

60° angled jaws featuring fine, 8mm platform. Flat , serrated handle. Overall length 102mm.



Opt-08-047

#### **Capsulorhexis Forceps**

45° angled shafts with angled tips. Flat, serrated , fenestrated, cross action handle. Made of high-grade, lightweight titanium. Overall length

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### Utrata Capsulorhexis Forceps

Flat/ round handle, 45° angled shafts, angled tips. Iris stops 8.5mm from tip. Round /knurled handle. Overall length 83mm

Opt-08-048



#### Chalazion Forceps

Oval, 13mmx11mm, solid lower plate with oval, flat/serrated handle with locking thumb screw. Overall length 97mm.

Opt-08-049



#### Lid Forceps

14mmx26mm oval lower plate with 9mm, two pronged, upper serrated jaw. Flat, serrated handle with locking thumb screw mechanism. Overall length 90mm.

Opt-08-050



#### Entropion Forceps

28mm, solid, lower plate. Open upper plate. Flat, serrated handle with locking thumb screw mechanism. Overall length 88mm.

Opt-08-051

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### Cilia Forceps

Straight shafts with slightly curved/smooth .  
Flat , serrated handle. Overall length  
103mm

Opt-08-052



#### Castroviejo-Colibri Corneal Forceps

Curved shaft. Angled tips teature 1x2,  
0.12mm teeth. Wide, serrated hangle .  
Overall length 108mm.

Opt-08-053



#### Corneal Utility Forceps

Curved shafts. Angled tips feature 1x2,  
0.12mm teeth. Overall length 75mm.

Opt-08-054



#### Corneoscleral Forceps

Curved shafts with 6mm tying platforms.  
Angled tips feature 1x2mm, 0.12mm teeth.  
Overall length 102mm (right/left) handled

Opt-08-055

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### Corneal Fixation Forceps

Straight shafts. Tips feature two point fixation with two set of 1x2, 0.12mm teeth, overall length 105mm.

Opt-08-056



#### Fixation Forceps

Straight shafts. Tips feature 1x2, 0.7mm teeth. Flat, serrated handle. Overall length 99mm.

Opt-08-057



#### Corneal Fixation Forceps

Angled shafts. Tips feature two point fixation with two sets of 1x2, 0.12mm teeth. 3mm spread between tips. Wide, flat, serrated handle. Overall length 104mm.

Opt-08-058



#### Conjunctival Fixation Forceps

Straight shafts with tying platforms. Tips feature 2x3, 0.12mm teeth. Flat, serrated handle. Overall length 94mm.

Opt-08-059

## Ophthalmic instruments

### Instrument Image



Opt-08-060

### Specification/Description

#### **Intraocular Forceps**

Straight, tubular shaft. Squeeze handle.  
Overall length 147mm.



Opt-08-061

#### **Vitreous Foreign Body Forceps**

Straight, 20 gauge diameter shaft. Three, 2mm prongs with 0.1mm angled tips. Squeeze handle. Overall length 84mm.



Opt-08-062

#### **Lens Holding Forceps**

Angled shafts with smooth tips. Knurled, round, spring handle. Overall length 115mm.



Opt-08-063

#### **Tying Forceps**

Angled shafts. Jaws feature 10mm tying platforms and smooth tips. Flat, serrated handle. Overall length 83mm.

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### **Intraocular lens forceps**

Curved shafts with smooth tips. Flat, serrated, fenestrated spring handle. Overall length 120mm.

Opt-08-064



#### **Folding Forceps**

Angled shafts with concave jaw surfaces. Standard, fenestrated handle. overall length 110mm.

Opt-08-065

**Use :** For picking up and folding IOL in one smooth motion.



#### **Intraocular Lens Forceps**

Curved shafts with flat, smooth tips. Flat, smooth, cross-action spring handle. Overall length 86mm.

Opt-08-066



#### **Iris Forceps**

Angled shafts with angled tips. Flat, serrated handle. Overall length 74mm.

Opt-08-067

## Ophthalmic instruments

### Instrument Image



### Specification/Description

#### **Mosquito forceps**

22 mm, delicate, serrated jaws. Ring handle with ratchet lock. Overall length 124mm. straight jaw/curved jaw

Opt-08-068



#### **Muscle clamp**

Adjustable, angled shaft. 13.5mm tips feature vertically opposing tooth-in-hole configuration . Overall length 85mm.

Opt-08-069



#### **Ptosis Forceps**

Curved shafts with longitudinally grooved jaws. Flat handle with lock. Overall length 102mm. 20mm jaws/27mm jaws

Opt-08-070



#### **Muscle Forceps-Adult**

Angled shafts with 6 horizontally opposing, tooth-in-hole, 1mm teeth, flat handle with lock. Overall length 100mm.

Opt-08-071



## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### **Pediatric Muscle forceps**

Angled shafts with 4 horizontally opposing, tooth-in-hole, 1mm teeth. Flat handle with lock. Overall length 99mm.

Opt-08-072



#### **Rectus Forceps**

45° angled shafts. Curved tips features 1x2 teeth. Flat, serrated cross-action handle. Overall length 97mm.

Opt-08-073



#### **Retinal Forceps**

20 gauge shaft. Round, knurled squeeze handle. Overall length 158mm.

Opt-08-074



#### **Suturing Forceps**

Straight shafts with tying platforms. Tips features 1x2, 0.12mm teeth. Flat, serrated handle. Overall length 92mm.

Opt-08-075

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### Eye and Ear Suturing Forceps

Straight shafts with tying platforms. Tips feature 1x2, angled teeth. Wide, flat, serrated handle. Overall length 87mm.

Opt-08-076



#### Tissue Forceps

Standard/delicate, straight shaft. Tips feature standard 1x2 teeth. Flat, serrated handle. Overall length 100mm.

Opt-08-077



#### Baby Jones Towl Clamp

Flat, serrated, cross-action handle. Overall length 60mm.

Opt-08-078



#### Backhaus Towl clamp

Ring handle with ratchet lock. Overall length 90mm/135mm.

Opt-08-079

## Ophthalmic instruments

### Instrument Image



Opt-08-080

### Specification/Description

#### Utility forceps

Straight shafts. Tips features 15mm long, grooved platform. Flat, serrated handle. Overall length 94mm.



Opt-08-081

#### Nucleus Cracker

Straight shafts with 1.5mmx1.2mm paddle style tips. Flat, fenestrated , cross-action handle. Overall length 95mm.



Opt-08-082

#### Double Fixation Hook

Straight shaft with sharp, two-pronged hook. Flat, serrated handle. 2mmx1.5mm hook/2.5mmx2mm hook , length 124mm/129mm



Opt-08-083

#### Scleral twist fixation cone

Straight shaft with 2.5mm diameter fixation cone. Round, knurled handle. Overall length 116.

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### Lens manipulating hook

Straight shaft with dual “Y” shaped and curved tip. Round, knurled handle. Overall length 110mm.

Opt-08-084



#### Insertion hook

0.2mm “T” shaped tip. Round knurled handle. Overall length 120mm.

Opt-08-085



#### Iris hook lens manipulator

Cloverleaf tip. Straight shaft with cloverleaf tip. Flat, smooth handle. Overall length 120mm.

Opt-08-086



#### Muscle hook

Straight shaft with hook. Flat, serrated handle. Overall length 144mm. (7,9,10)mm x (1,1.5) mm hook

Opt-08-087

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### **Goniotomy Knife**

Straight shaft with 2mm blade. Flat, smooth handle. Overall length 117mm.

Opt-08-088



#### **Foreign Body Spud**

Lightly curved blade with thin , rounded tip. Flat,smooth handle. Overall length 103mm.

Opt-08-089



#### **Corneal knife**

3.5mm, spoon-shaped blade. Flat, serrated handle. Overall length 121mm.straight blade/curved blades

Opt-08-090



#### **Spud and Gouge**

Double ended with removable 18mmx1.25mm gouge tip and 4mmx2mm spud tip. Round, knurled handle. Overall length 105mm.

Opt-08-091

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### Lens Spoon

Straight shaft with spoon. Flat, smooth handle. Overall length 133mm.

Opt-08-092



#### Irrigating Vectus

23 gauge cannulated shaft with heart-shaped loop. Loop feature two front ports. Shaft length 36mm.

Opt-08-093



#### Reverse irrigating vectus

23 gauge, cannulated shaft with 6mmx8mm loop. Three irrigating port at 12, 10 and 2 o'clock. Shaft length 38mm.

Opt-08-094



#### Lens Loop

10mmx4mm loop. Flat, smooth handle. Overall length 131 mm.

Opt-08-095

## Ophthalmic instruments

### Instrument Image



Opt-08-096

### Specification/Description

#### **Irrigating Lens Loop**

25 gauge cannulated shaft with strongly curved, finely serrated loop. Loop features two irrigating ports



Opt-08-097

#### **Needle Holder**

Extra delicate , 10mm, smooth jaws. Round, knurled handle. Overall length 114mm. Straight jaws/curved jaws.



Opt-08-098

#### **Micropoint needle holder**

Extra delicate, 7mm, smooth jaws. Round, knurled handle. Overall length 120mm.







Opt-08-099

#### **Nucleus Rotator**

Angled shaft with "Y" shaped tip. Round, knurled handle. Overall length 122mm.

## Ophthalmic instruments

Instrument Image	Specification/Description
 <p>Opt-08-100</p>	<p><b>Nucleus Support Spatula</b></p> <p>Straight shaft with curved, 3mm wide spatula blade. Flat, smooth handle. Overall length 123mm.</p>
 <p>Opt-08-101</p>	<p><b>Nucleus Trisector</b></p> <p>Three sided resector set on offset shaft. Round, knurled handle. Overall length 110mm.</p> <p><b>Use :</b> For dividing nucleus into three sections; for removal during manual, small incision surgery</p>
 <p>Opt-08-102</p>	<p><b>Stop and Chop manipulator</b></p> <p>Angled shaft with 1.5mm, angled tip. Round, knurled handle. Overall length 112mm.</p>
 <p>Opt-08-103</p>	<p><b>Nucleus Chopper</b></p> <p>Angled shaft with 60° blade and 1.25mm tip. Round, knurled handle. Overall length 103mm.</p>



## Ophthalmic instruments

### Instrument Image



Opt-08-104

### Specification/Description

#### Mini- Lacrimal probes

Set consists of two 1mm diameter, 37mm long, gently curved, blunt probes with 300mm of silicone tubing fastened.



Opt-08-105

#### Stainless Steel Lacrimal Probes

Double –ended, malleable, stainless steel probes. Size (size 1/2, 3/4, 5/6, 7/8)

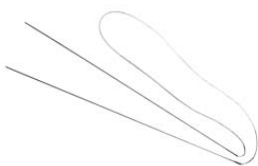
**Use :** For dividing nucleus into three sections for removal during manual, small incision surgery



Opt-08-106

#### Castroviejo Lacrimal dilator

Double ended with small and medium tapers. Round, knurled handle. Overall length 138mm.







Opt-08-107

#### Lacrimal intubation set

Set consists of two 0.7mm diameter. 140mm long, malleable sterling silver, blunt probes with 290 of silicone tubing fastened. Overall length 570mm.

## Ophthalmic instruments

Instrument Image	Specification/Description
 <p>Opt-08-108</p>	<p><b>Trabeculotomy probe</b></p> <p>Double-pronged probe with 9mm prongs set at a 90° angle. Round, knurled handle. Overall length 46mm.</p>
 <p>Opt-08-109</p>	<p><b>Infant lacrimal dilator</b></p> <p>Delicate taper. Round, knurled handle. Overall length 78mm.</p>
 <p>Opt-08-110</p>	<p><b>Pigtail probe</b></p> <p>Double ended, 0.8mm diameter curved blunt probes. Round , knurled handle. Overall length 149mm.</p>
 <p>Opt-08-111</p>	<p><b>Retinal Pick</b></p> <p>Straight shaft with 1mm, 55° angled tip. Round, knurled handle. Overall length 123mm.</p>

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### Retinal detachment hook

Straight shaft with flattened 13mm, fenestrated, hook. Flat, smooth handle. Overall length 118mm.

Opt-08-112



#### Membrane spatula

Straight, 20 gauge shaft with rounded tip spatula blade. Round, knurled handle. Overall length 130mm.

Opt-08-113



#### Collar Button

23 gauge, cannulated shaft with side port. Straight shaft 25mm/ angled shaft 23mm.

Opt-08-114

**Use :** For iris retraction and lens manipulation.



#### Expressor and Iris Retractor

Double ended muscle hook/lens expressor. 2mm wide retractor blade. Round, knurled handle. Overall length 143mm.

Opt-08-115

## Ophthalmic instruments

### Instrument Image



Opt-08-116

### Specification/Description

#### Lacrimal Sac Retractor

3x3, 2mm, curved teeth. Blade spread 20mm. Overall length 80mm.



Opt-08-117

#### Orbital Retractor

10mm by 18mm cupped retractor blade. Overall length 145mm.



Opt-08-118

#### Sclera and Blepharostat ring

Fixation ring with loops to retract lids. Pediatric size/adult size



Opt-08-119

#### Capsulotomy scissors

Extra thin, 8mm blades with pointed tips. Flat, serrated, spring handle. Overall length 83mm. Straight/curved

## Ophthalmic instruments

### Instrument Image



Opt-08-120

### Specification/Description

#### Corneal Scissors

Curved, medium blades with 1mm to 6mm calibrations. Flat, serrated, spring handle. Overall length 108mm.



Opt-08-121

#### Transplant Scissors

6mm, strongly curved blades. Flat, serrated, spring handle with stop. Overall length 100mm.



Opt-08-122

#### Corneal Section Scissors

Angled blades with blunt tips. Flat, serrated handle. Overall length 115mm.



Opt-08-123

#### Enucleation Scissors

Curved blades with blunt tips. Ring handle. Overall length 133mm.

## Ophthalmic instruments

### Instrument Image



Opt-08-124

### Specification/Description

#### **Intraocular Scissors**

2mm pointed blades. Squeeze handle.  
Provided with protective cap. Overall length  
146mm



Opt-08-125

#### **Iris Scissors**

16 mm blades with pointed tips. Flat,  
serrated, spring handle. Overall length  
117mm.



Opt-08-126

#### **Eye Scissors**

Standard, 27mm blade with pointed tips.  
Ring handle. Overall length  
110mm.straight/curved



Opt-08-127

#### **Conjunctival Scissors**

Curved blades with blunt tips. Flat, serrated  
spring handle. Overall length 101mm.

## Ophthalmic instruments

### Instrument Image



Opt-08-128

### Specification/Description

#### **Sclera Depressor**

Thimble style depressor with 8mm wide tip.  
Overall length 43mm, 1.7inches



Opt-08-129

#### **Capsule polisher**

25 gauge cannulated shaft with 2.5mm ring  
tip. Shaft length 23mm.



Opt-08-130

#### **Enucleation spoon**

Flat, smooth handle. Small size /8mm  
spoon. Overall length 136mm. Large  
size/12mm spoon. Overall length 140mm.



Opt-08-131

#### **Enucleation Snare**

Only to be used, twisted snare wire

## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### **Flat Enucleation spoon**

21mm diameter, curved, notched spoon.  
Flat, smooth handle. Overall length 140mm.

Opt-08-132



#### **Double-ended cyclodialysis spatula**

Double ended spatula with 10mm and  
15mm length blades. Flat, serrated handle.  
Overall length 139mm.

Opt-08-133



#### **Iris Spatula**

1mm wide, malleable, stainless steel blade.  
Flat, smooth handle. Overall length 129mm.

Opt-08-134



#### **Lens nucleus spatula**

Flat, curved, 1mm spatula blade with  
calibration at 5mm, 6mm and 7mm from  
tip. Round, knurled handle. Overall length  
126mm

Opt-08-135



## Ophthalmic instruments

### Instrument Image

### Specification/Description



#### Eye Speculum

Wire speculum for newborn infants.  
Fenestrated , 5mm blades. Overall length 45mm.

Opt-08-136



#### Lens folding forceps

Angled shafts. Flat, serrated, fenestrated,  
cross-action handle. Overall length 105mm.

Opt-08-137



#### Castroviejo mini corneal scissors

Curved, 6mm blades. Flat, serrated, spring  
handle. Overall length 116mm.

Opt-08-138



#### Keratometer

Concentric rings, made of lightweight  
titanium.

Opt-08-139

**Use :** For providing reflection of cornea.

## Ophthalmic instruments

### Instrument Image



Opt-08-140

### Specification/Description

#### **Stereomicroscope**

Zoom range with eyepiece 10x: 6.5x, 50x;  
long working distance 92mm, magnification  
with adapter system 1.95x to 100x



Opt-08-141

#### **Reverse position Microscopes**

Reverse position, quadruple nosepiece. 30°  
binocular head, 10x/18 Br.foc.eyepieces,  
mechanical stage. Plano-concave mirror.



Opt-08-142

#### **Routine microscope**

Optical specification: objectives A10/0.25,  
plan Ph 20/0.35, Ph 40/0.65 and A 100/1.25  
oil,

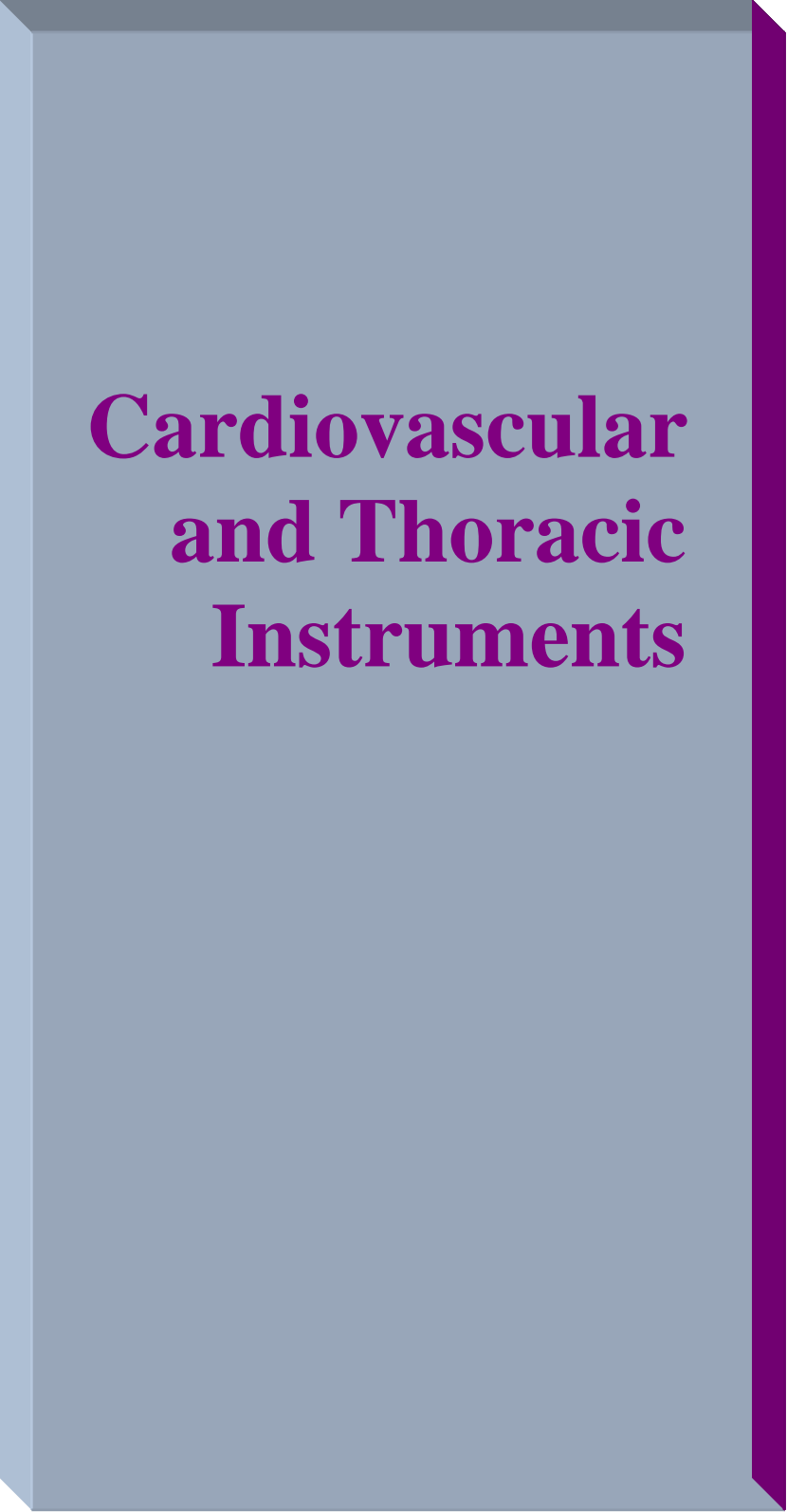


Opt-08-143

#### **Refractometers**

Measuring range 0 to 80% with accuracy of  
1% vol

**Use :** For analysing liquids and their solid  
contents.



# **Cardiovascular and Thoracic Instruments**

**Cardiovascular and Thoracic  
instruments**

**Instrument Image**



CARTH-10-000

**Specification/Description**

**Approximator**

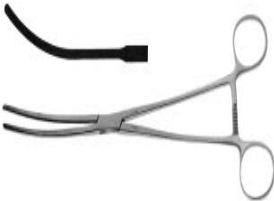
Adult size with prongs. Prong depth 27mm, total opening, 127mm, total length 181mm



CARTH-10-001

**Miniature Aorta clamp**

1x2 teeth/2x3 teeth, jaw length (29mm,76mm) jaw depth 7mm, total length 159mm,197mm.straight/angled handle



CARTH-10-002

**Aortic Aneurysm Clamps**

1x2 vascular teeth jaw length 76mm/85mm/102mm, total length 229mm/267mm/305mm/318mm



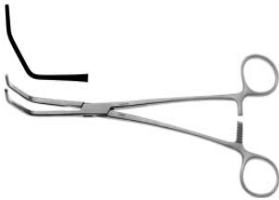
CARTH-10-003

**Aortic Exclusion Clamp**

Acute S-shape, 1x2 vascular teeth. Jaw length 76mm/jaw depth 14mm/total length 191mm.

## Cardiovascular and Thoracic instruments

### Instrument Image



CARTH-10-004

### Specification/Description

#### Auricle Appendage Clamp

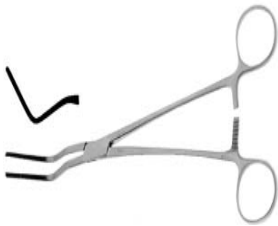
1x2 vascular teeth, jaw length 52mm/jaw depth 7mm/total length 248mm



CARTH-10-005

#### A-V fistula clamp

Angled 50°, 1x2 vascular teeth. Jaw length 25mm/total length 114mm



CARTH-10-006

#### Bronchus Clamp

1x2 vascular teeth/toothed jaw . Jaw length 41mm/total length 241mm.



CARTH-10-007

#### Bulldog Clamps

Straight, jaw length, 2cm/length 5cm; jaw length 1.8cm/length 4.5cm

**Cardiovascular and Thoracic  
instruments**

**Instrument Image**



CARTH-10-008

**Specification/Description**

**Carotid Artery Clamp**

Cannula like groove , threaded cap screws  
with screwdriver guide



CARTH-10-009

**Carotid Artery Bypass Clamps**

Angled jaw 17.8cm/6mm ring;  
15.9cm/4mm ring



CARTH-10-010

**Coarctation Clamps**

Calibrated jaws, 2x2 vascular teeth. Straight  
jaw/straight shaft, angled shaft with jaw  
length 40mm/total length 171mm



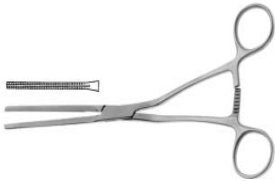
CARTH-10-011

**Crile-type clamp**

Serrated jaws. Length 19.1cm/curved jaw  
3.8cm long

## Cardiovascular and Thoracic instruments

### Instrument Image



CARTH-10-012

### Specification/Description

#### Iliac clamps

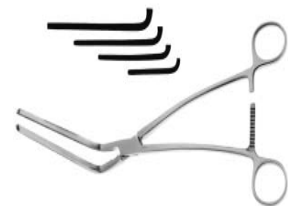
Angled shaft, 2x2 vascular teeth. Jaw length 60mm/total length 254mm/261mm



CARTH-10-013

#### Ligature carrying Forceps

1x2 vascular teeth. Length of serrations 15mm/jaw length 57mm/ total length 254mm



CARTH-10-014

#### Multi-purpose Clamps

90° angle, 1x2 vascular teeth. Jaw length 40mm,50mm,70mm,100mm/total length 222mm, 178mm, 216mm,267mm



CARTH-10-015

#### Patent Ductus clamps

Straight jaws, 2x2 vascular teeth. Straight shaft/jaw length 30mm,total length 159mm; angular shaft/jaw length 30mm, total length 159mm.

## Cardiovascular and Thoracic instruments

### Instrument Image

### Specification/Description



#### Peripheral Vascular clamp

Angled, 1x2 vascular teeth/jaw length  
65mm/total length 178mm

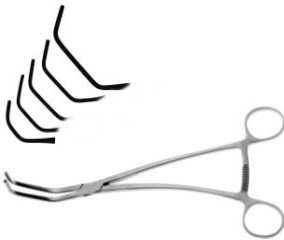
CARTH-10-016



#### Renal Artery Clamps

Blades calibrated at 5mm intervals, curved  
shaft, 2x2 vascular teeth. Jaw length  
15mm,25mm/total length 185mm,195mm

CARTH-10-017



#### Tangential Occlusion Clamps

1x2 vascular teeth. Jaw length  
40mm,48mm,60mm/jaw depth  
13mm,15mm/ total length 191mm, 248mm,  
254mm,260mm

CARTH-10-018



#### Tubing clamp

Tubing no longer than 0.25", jaw length to  
cuff 32mm, length 191mm

CARTH-10-019



## Cardiovascular and Thoracic instruments

### Instrument Image

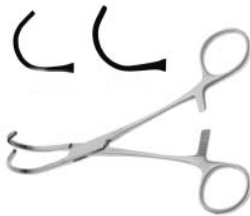


CARTH-10-020

### Specification/Description

#### Anastomosis Clamp

Blade calibrated at 5mm intervals, 2x2 vascular teeth, jaw length 40mm, jaw depth 20mm, total length 165mm



CARTH-10-021

#### Vessel Clamp

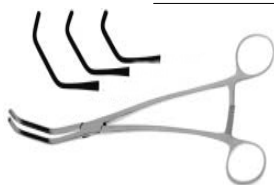
Blades calibrated at 5mm intervals, 2x2 vascular teeth. Jaw length 25mm/30mm, jaw depth 10mm, total length 152mm



CARTH-10-022

#### Vascular Clamps

Acutely curved, 1x2 vascular teeth. Jaw length 50mm/70mm; jaw depth 10mm/25mm; total length 241mm/267mm



CARTH-10-023

#### Vena Cava Clamps

1x2 vascular teeth. Jaw length 68mm, 63mm, 57mm/jaw depth 12mm, 9mm, 6mm/total length 241mm

## Cardiovascular and Thoracic instruments

### Instrument Image



CARTH-10-024

### Specification/Description

#### Rib Contractor

Ratchet action , total opening  
117mm/length 181mm



CARTH-10-025

#### Intima Dissectors

Slight curve length 165mm, tip width  
4mm/medium curve length 165mm,tip  
width 8mm/acute curve tip width 15mm;



CARTH-10-026

#### Dilator

With 2mm tip width graduated to 17.5mm ,  
length 146mm



CARTH-10-027

#### Vascular Dilators

Malleable shaft, length 140mm, set  
diameter ranging from 1 to 5mm

## Cardiovascular and Thoracic instruments

### Instrument Image



CARTH-10-028

### Specification/Description

#### Artery Forceps

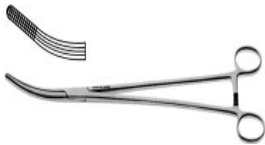
Curved of length 184mm



CARTH-10-029

#### Coronary Forceps

Tungsten cabide tip insert, with fine serrations. Tip width 1.8mm, length 197mm



CARTH-10-030

#### Hemostatic Forceps

Longitudinal serrations, curved, length 312mm



CARTH-10-031

#### Intestinal Forceps

Curved , total length 279mm.

## Cardiovascular and Thoracic instruments

### Instrument Image

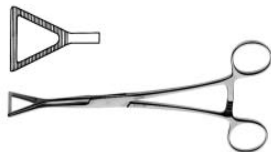


CARTH-10-032

### Specification/Description

#### Ligature Carrying Forceps

1x2 vascular teeth. Length of serration 15mm, jaw length 57mm , total length 254mm.



CARTH-10-033

#### Lung Grasping Forceps

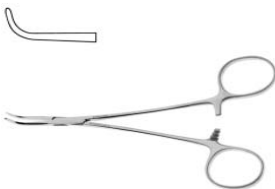
Traingular jaw. Jaw width 25m/ total length 203mm



CARTH-10-034

#### Suture Tag Forceps

Smooth jaws, numbered for identification. Length 89mm.



CARTH-10-035

#### Thoracic Clamp Forceps

Smooth jaws, length 133mm

## Cardiovascular and Thoracic instruments

### Instrument Image



CARTH-10-036

### Specification/Description

#### Thoracic Artery Forceps

24mm jaw length, slightly curved with length of 23.5cm



CARTH-10-037

#### Intra-Thoracic Forceps

Slightly curved, jaw length 57mm/total length 229mm



CARTH-10-038

#### Thoracic Tissue Forceps

Tip width 8mm , total length 254mm



CARTH-10-039

#### Vascular Forceps

1x2 vascular teeth, grooved with cross serrations. Tip width 1.7mm , length 152mm

**Cardiovascular and Thoracic  
instruments**

**Instrument Image**



CARTH-10-040

**Specification/Description**

**Vessel Forceps**

Length of 216mm



CARTH-10-041

**Vein Holder**

Tapering tip. Tip width 1mm, maximum diameter 10mm, length 178mm

**Use :** holds vein during anastomosis in the aorta to coronary bypass graft procedure



CARTH-10-042

**Sternal Knife**

Blade length 32mm, length 248mm.



CARTH-10-043

**Flushing Needle,**

18G, length 48mm

## Cardiovascular and Thoracic instruments

### Instrument Image



CARTH-10-044

### Specification/Description

#### Aortic Punches

Total length 156mm, bite 4mm



CARTH-10-045

#### Coastal Periosteotomes

Sharp, double-ended, elevator width 13mm, stripper width 25mm, length 213mm



CARTH-10-046

#### Rib Raspatories

Sharp, blade length 30mm/ 178mm



CARTH-10-047

#### Epicardial Retractor

Self retaining, light spring steel retractor with 3x3 sharp prongs. Length of 4.7cm

## Cardiovascular and Thoracic instruments

### Instrument Image

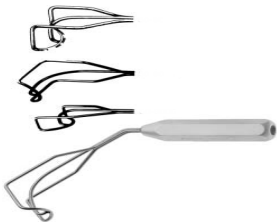


### Specification/Description

#### Lung Retractors

Small length 260mm/large length 318mm

CARTH-10-048



#### Atrial Retractors

Length 254mm, blade width 44mm/blade depth 25mm/44mm

CARTH-10-049



#### Scapular Retractors

Blade width 51mm, 89mm/ blade depth 76mm/handle length 152mm

CARTH-10-050



#### Aortic Valve Retractors

Length 197mm, blade width 10mm/blade length 18mm/28mm

CARTH-10-051



## Cardiovascular and Thoracic instruments

### Instrument Image



CARTH-10-052

### Specification/Description

#### Vascular Retractors

With swiveling blades, self retaining with flexible arms. Arm length 83mm, blade width 25mm, blade depth 51mm



CARTH-10-053

#### Popliteal Retractors

Self retaining. Length 165mm, total opening 95mm, blade width 38mm, blade depth 76mm



CARTH-10-054

#### Rib Retractors

Rib retractor, self-retaining with rack and pinion action. Two set of detachable blades, curved arms; arm length 241mm , total opening 254mm



CARTH-10-055

#### Infant rib Retractors

Self-retaining with rack and pinion action; arm length 76mm, blade length 19mm, blade depth 21mm, total opening 64mm

## Cardiovascular and Thoracic instruments

### Instrument Image

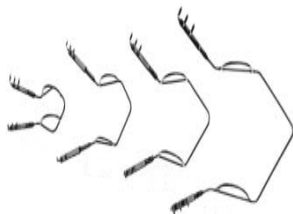


CARTH-10-056

### Specification/Description

#### Sternal Retractors

Alumunium, with stainless steel rack. Arm length 114mm, total opening 127mm, blade width 19mm, blade depth 25mm.



CARTH-10-057

#### Epicardial Retractors

Length mini 25mm, small 28mm, medium 38mm, large 54mm.



CARTH-10-058

#### Rib Rongeur, double action

Bite 3mm, length 368mm



CARTH-10-059

#### Cardiovascular Scissors

Curved on flat, mayo-type handles length 19.1cm

## Cardiovascular and Thoracic instruments

### Instrument Image



CARTH-10-060

### Specification/Description

#### Circumflex Artery Scissors

With stabilizing bar, 125° angle. Blade width 4mm, blade length 13mm, length 178mm.



CARTH-10-061

#### Coronary Artery Scissors

Blade width 4mm, blade length 13mm, length 178mm, angle (25, 45, 60, 90) degree



CARTH-10-062

#### Coronary Artery Scissors

Length 184mm, blade width 6mm/3mm/5mm, blade length 21mm/22mm/19mm (45°, 60°, 90° )



CARTH-10-063

#### I.M.A Scissors

Straight , bayonet(45° tip), 152mm, 191mm

**Cardiovascular and Thoracic  
instruments**

**Instrument Image**



CARTH-10-064

**Specification/Description**

**Dissecting Scissors**

Acute curve , length 216mm



CARTH-10-065

**Endarterectomy Scissors**

Length 178mm.



CARTH-10-066

**Stitch Scissors**

Curved on side, length 89mm



CARTH-10-067

**Metzenbaum Tenotomy Scissors**

Curved blades, length 22.8cm, 20.3cm,  
15.2cm

## Cardiovascular and Thoracic instruments

### Instrument Image

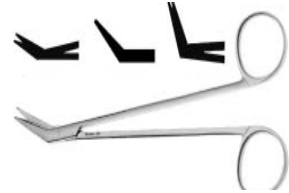


CARTH-10-068

### Specification/Description

#### **Tissue Scissors**

Serrated blades, curved, length 229mm



CARTH-10-069

#### **Vascular Scissors**

Blade width 6mm, blade length 22mm,  
length 165mm; angle (25,45,60) degree



CARTH-10-070

#### **Valve Scissors**

Serrated blades, length 229mm; slight  
curve, full curve



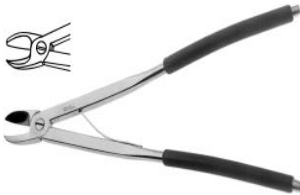
CARTH-10-071

#### **Mitral Valve Scissors**

Angled on side, length 279mm; lesser  
curve/full curve

## Cardiovascular and Thoracic instruments

### Instrument Image



CARTH-10-072

### Specification/Description

#### Rib Shear

Length 356mm



CARTH-10-073

#### Vein Spreader

Total opening 10mm, handle length 38mm, shaft length 38mm.



CARTH-10-074

#### Rib stripper and Elevator

Sharp, double-ended. Elevator width 16mm, stripper width 35mm, length 219mm.



CARTH-10-075

#### Graft Suction Tube

Open end, small side opening. Distal tip diameter 8mm/length 305mm

## Cardiovascular and Thoracic instruments

### Instrument Image



### Specification/Description

#### Vascular suction tube

Round perforated end. Diameter 6mm/length 292mm.

CARTH-10-076



#### Left ventricular sump suction tube

Perforated tip, 30° angle. Diameter 8mm/length 289mm.

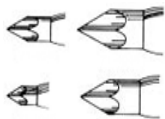
CARTH-10-077



#### Cardiovascular Tourniquets

With ratchet, adult length 152mm/229mm, with obturator 305mm.

CARTH-10-078



#### Empyema Trocars

Length 203mm.



CARTH-10-079



# **Dental Instruments**



## Dental Instruments

Diagnostic

### Instrument Image

### Specification/Description

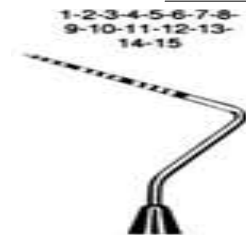


DE-01-000

#### Explorers

Double explorers comprised # 17 for gingival , calculus detection and #23 for carry detection

**Use:** For detecting and exploring abrasion



DE-01-001

#### Probes

Length of 6 mm for standard control point

**Use :** For checking the depth of periodontal pocket vertically or horizontally



DE-01-002

#### Explorer/Probes, 6mm

Standard control point for diagnostic patient



DE-01-003

#### Mirror Handle

Variety of mirror with size, style and handles, double mirrors, octagonal mirrors, mirror head front surface, anterior, posterior

## Dental Instruments

### Periodontal

#### Instrument Image

#### Specification/Description



#### Sickle/Jacquette Scalers

Anterior premolar/posterior, townner, white side, odont, morse

DE-01-004

**Use:** For removing calculus on the surface of gingival area



#### Black Titanium Instruments

Length of 6 mm for standard control point

DE-01-005



#### Sickle Scalers/Curettes

Facial/lingual, buccal/lingual

DE-01-006

**Use :** For removing supragingival calculus



#### Derbinement/Furcation

Buccal and lingual, mesial and distal, anterior, labial lingual

DE-01-007

**Use :**For removing residual calculus after ultrasonic scaling for deep pockets

## Dental Instruments

### Periodontal Surgery

#### Instrument Image

#### Specification/Description



#### Surgical and Knives/files

Kirkland, Orban, crane Kaplan , sanders type– KM3/4, KCK-3, KOR1/2L

DE-01-008

**Use:** For removal of soft tissue, and for removal of granulomatous



#### Surgical Curettes

Kirkland, Kramer Nevins(KN3/4, KN4), sugarman(3/6,9/10, 11/12) Periotome

DE-01-009

**Use :** For removal of remaining tissue of infected gingival area after extraction



#### Periotomes

PT-1, PT-2, PT-3, PT-4 (titanium regular, titanium angle)

DE-01-010

**Use :** For removal of teeth with minimum tissue damage



#### Surgical Chisels

13k/TG– 3.5/3mm(3.5/4.5mm), 13k/TG titanium, KN1/2, C36/37, SOLT 3/4



DE-01-011

**Use :**For scraping out and reshaping bone; for removal of flaps and splitting bone

## Dental Instruments

### Implant instruments

#### Instrument Image



DE-01-012

#### Specification/Description

##### Osteotomes

Concave STR, Convex CVD  
(2mm,3mm,3.3mm,4mm,5mm),

**Use:** For bone spreading for implant



DE-01-013

##### Sinus Lift instruments

Bonescoop 5mm, periostal ,bone plugger  
3x1.5mm, bone graft 1.0/1.7mm (titanium,  
serrated)

**Use :** For separation of sinus lining from bone



DE-01-014

##### Osteotomes 2

OSTM( 3mm-4.7mm), OSTM STR  
(1.8mm-4.7mm), straight, Jovanovic

**Use :** used in surgical procedures for preparation of  
implants



DE-01-015

##### Endo Forceps

Endo Forceps (75mm, 95mm, 110mm)

**Use :**For implantation

## Dental Instruments

### Implant instruments

#### Instrument Image

#### Specification/Description



#### Bone Syringe

Bone syringe (3mm,3.5mm,4mm)

**Use:** For implantation

DE-01-016



#### Castroviejo

Castroviejo STR (8.5cm,17cm )

**Use :** For implantaion

DE-01-017



#### Tissue Plier

Adson (12cm, 15cm), Crane Kaplane 15cm, self locking 16cm, tissue forceps T/C Gerald 18cm

**Use :** For preventing slipping while reducing the weight over 20%

DE-01-018



#### Tissue, Cotton and Dressing pliers

Atraumatic 18cm, Allison baby 12.5cm, Allison 15cm

**Use :**For implantation

DE-01-019

## Dental Instruments

### Implant instruments

#### Instrument Image



DE-01-020

#### Specification/Description

##### Cotton Pliers

Adson (12cm, 15cm), adson baby of 12.5size

**Use :** For implantation support



DE-01-021

##### Titanium instruments

Titanium Molt-9, PR-3, 24G, Buser

**Use :** For implantaion



DE-01-022

##### Accu Laxating

Accu lux (straight, curved, spade, distal, mesial, large distal, large mesial)

**Use:** For pulling , lifting up the periosteum and loosening the tooth from the lip



DE-01-023

##### Scalpel

Scalpel of standard 180 degree and 16.2cm

**Use :** Forr implantation

## Dental Instruments

### Operative

#### Instrument Image

#### Specification/Description



#### PKT Waxing

Gold Fogel –1,3R

**Use:** For shaping, carving or pouring molten wax

DE-01-024



#### Amalgam Carriers

Small 1.5mm, medium 2mm, large 2.5mm,  
Jumbo 3mm

**Use :** For carrying and dispensing amalgam materials

DE-01-025



#### Gingival retractors/cord packers

GRM-(2,3,4), GR-10, cord packers serrated

**Use :** For protecting tissue during cavity preparation and placement of composite fillings

DE-01-026



#### Plastic filling

Anterior /Posterior—darby perry trimmer  
(3R, 21L,49, H2, B2, IPCOA)

**Use :**For composite placing and shaping

DE-01-027

## Dental Instruments

### Endodontic

#### Instrument Image



DE-01-028

#### Specification/Description

##### Pluggers and condensors

RCP set of (0.3, 0.4, 0.5, 0.55, 0.6, 0.65, 0.75)  
for anterior / posterior–  
8P, 8.5P, 9P, 9.5P, 10P, 10.5P, 11P, 11.5P

**Use:** For vertical pressing and compacting filling materials

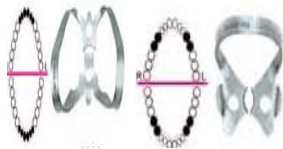


DE-01-029

##### Spreaders and heat carriers

RCS sets( RCS 30,40,50,60), heat carriers  
(0.20,0.25,0.35,0.55)

**Use :** For filling solid medicine materials into the endodontic area during lateral condensation



DE-01-030

##### Rubber Dam Clamps

Anterior (6, 9s, 212),  
Premolar(0, 1, 1A, 2, W2, 2A, 2AS, 27N,  
29), lower molar(3, W3, 7, W7, 7A), upper  
molar(56, 56S, 4,

**Use :** stabilizes and holds the dam secure



DE-01-031

##### Ivory Light weight

Ivory light weight 17cm, brewer 17.5cm,  
stoke 17.5,



## Dental Instruments

### Surgical

#### Instrument Image

#### Specification/Description



DE-01-032

#### Periosteals

Bennet, P-149 , titanium molt-9, PR-3, P15,P16,24G, HF-20, periosteal elevator

**Use:** For retracting periosteum after removing gingival tissue



DE-01-033

#### Surgical Curettes (Spoon)

86 lucas, 87 lucas, 87 lucas, (8-12)miller, molt-2,molt-4,molt -5L,molt-5R

**Use :** For curettage and cyst removal



DE-01-034

#### Bone Chisels/files

Single bevel BF1x(B1 bevel,miller), Gardner (1,2,5,5R,6,9), Chandler (1,2,4) , (235g,130g) mallet, mead-2mallet

**Use :** For final smoothening/removing bone by pushing/pulling out



DE-01-035

#### Chisels and Gouges

Partsch 17cm, freer 16cm, lucas 16cm

**Use :**For scooping bone

## Dental Instruments

Surgical

### Instrument Image



DE-01-036

### Specification/Description

#### Bone Rongeurs

Blumental 15cm, blumental 45degree, 14.5cm , blumental 90degree, 14.5cm

**Use:** For tooth extraction as a whole by trimming and recontouring alveolar bone



DE-01-037

#### Root Splinter

Root fragments straight (45, 90 degree), peet sharp (15, 45, 90 degree)

**Use :** For extracting root tips of the tooth where normal forceps cannot reach



DE-01-038

#### Sponge and Dressing Forceps

With out rathet (14.5cm,18cm,20cm), curved (17.5cm, 21cm)



DE-01-039

#### Haemostatic forceps

Pean 12.5, baby-crile(pean) 14cm, crile 14cm, Halsted 12.5cm, micro-halsted 12.5cm (curved)

**Use :**For lockable forceps for seizing the end of a blood vessel to control hemorrhage

## Dental Instruments

Surgical

### Instrument Image



DE-01-040

### Specification/Description

#### Needle holder

Needle holders crile-murry 15cm, 18cm, Adson 17.5cm, Castroviejo 16cm, Boynton 12cm

**Use:** For holding and guiding the needle securely during suturing



DE-01-041

#### Gum Scissors

Dean 16.5cm, Matzenbaum 14cm, locklin 16cm, mayo 14.5cm CVD, Lagrange CVD 11.5cm, suture 14cm, Castroviejo 10cm

**Use :** For cutting threads and gum



DE-01-042

#### Tungsten Carbide insert

Metzenbaum 14.5cm, goldman 13cm, wire cutting 12cm, dean 16.5cm , locklin 16.5cm, Kelly 16cm

**Use :** For cutting threads and gum



DE-01-043

#### Raspatories

Koning 15.5cm , williger 14cm , 16cm; tessier 20cm, 22cm,

**Use :** For hooking skin during surgery, also as retractors for holding back the lips and cheeks

## Dental Instruments

Surgical

### Instrument Image



DE-01-044

### Specification/Description

#### Skin hook and retractors

Frazier 13cm, Joseph 16.5cm, Gillies 18cm, Standell-Stille 18cm, Langenbech-Green 16cm, Roux 16.5cm

**Use:** For hooking skin during surgery, for holding back the lips, cheeks and tongue



DE-01-045

#### Mouth Gag

Mouth Gag(adult size) 14cm, child size 12cm, pedo size 10cm

**Use :** For keeping the mouth open



DE-01-046

#### Scalpel handles

Scalpel of size 13.5cm, 12cm, 14.5cm, double head 14.5cm, scalpel 180degree;16.2cm

**Use :** For holding a mess blade



DE-01-047

#### Syringes

Syringe 1.8ml, 2.2ml; paroject

**Use :** For injecting anesthetics from a cartridge; for supplying air, water or a mist in three ways

## Dental Instruments

### Surgical

#### Instrument Image



DE-01-048

#### Specification/Description

##### Elevators

Crane pick 8, seldin 1L, seldin 1R, seldin 4L, cryer M25 , apical 3L, flohr sharp end

**Use:** For pulling, lifting up the periosteum and to loosen the tooth from the periosteal



DE-01-049

##### Root tip picks/teasers

Root 78 str, root 79L, root 80R

**Use :** For removing residual root tips of tooth



DE-01-050

##### Extraction Forceps

Lower molars cow-horn beak , lower molar left side, upper anterior 1AF, Upper molars hook handle 10H, 15, 16S, upper molars/incisors, root canines and premolars strong beak

**Use :** For extracting teeth from alveolar bone



DE-01-051

##### Extraction Forceps/pedodontic pattern

158 upper molars universal, 160 lower molars universal, lower central and roots, upper central, 5 lower incisors

**Use :** For extracting teeth from alveolar bone

## Dental Instruments

### Crown instruments

#### Instrument Image



DE-01-052

#### Specification/Description

##### Crown Scissors

Straight saw edge 10.5cm, curved saw edge 10.5cm , universal 12cm

**Use:** For removing crowns permanently by cutting off the seal between tooth and crown after splitting



DE-01-053

##### Crown Spreader

Crown spreader 14cm, flat; teeth

**Use :** For splitting and spreading the crown open for removal



DE-01-054

##### Crown remover

Crown remover of size between 15cm and 20cm is of standard

**Use :** For gripping onto the crown and removing from the tooth



DE-01-055

##### Impression trays

Solid partial set of 10, perforated partial set of 10 (upper/lower), solid pull denture , perforated full denture

**Use :** For forming a crown frame

## Dental Instruments

### Orthodontic

#### Instrument Image



DE-01-056

#### Specification/Description

##### Cutters

Universal distal end cutter, distal end cutter slim/handle, wire cutter(hard,soft)

**Use:** For cutting wire during orthodontic procedures



DE-01-057

##### Band remover

Ticker/straight/long/angled/adhesive/bracket remover

**Use :** For removing orthodontic bands from teeth



DE-01-058

##### Pliers

Universal 16cm, Aderer 14.5, Double serrated 14cm, arrow clasp forming 12cm, pointed jaw 14cm, mosquito plier 12.5cm

**Use :** For bending wire during orthodontic procedures



DE-01-059

##### Matrix retainers

Ivory 8(5mm, 6mm,7mm ), siqveland wide, tofflemire universal

**Use :** For holding metal bands or strips around the tooth creating a temporary mold.

## Dental instruments

### Instrument Image



DE-01-060

### Specification/Description

#### Dental unit

Chair mounted dental unit



DE-01-061

#### Wax knives

Sizes of 12.5cm, 17cm

**Use :** For carving wax in laboratories



DE-01-062

#### Towel Clamps

Sizes of 8cm, 9cm, 11cm, 13.5cm

**Use :** For securing drapes to the skin and for holding tissue



DE-01-063

#### Cavitrons

Cavitron 25khz, 30khz, 10/30khz; internal and external flow scaler inserters





# Orthopedic Instrument

## Orthopedic instruments

### Instrument Image



Orth-07-000

### Specification/Description

#### Scalpels and Scalpel Handles

Scalpel handles of Size 13.5 cm, 15.5cm,16cm,16.5cm,18cm,20cm,33cm



Orth-07-001

#### Dermatomes

Size 19cm, 23cm , 30cm



Orth-07-002

#### Bandage and Cloth Scissors

One jaw Serrated -16cm, One jaw serrated – 20cm, 22.5cm,23cm,23.5cm



Orth-07-003

#### Tendon Forceps

Flexible shaft , 27.5cm

## Orthopedic instruments

### Instrument Image

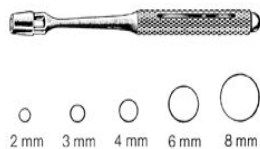


Orth-07-004

### Specification/Description

#### Piffard Dermal Curette

Piffard Dermal Curette, stainless steel, 5.75"



Orth-07-005

#### Keyes Dermal Punch

Keyes Dermal Punch, stainless steel, 3.75" (2mm, 3mm, 4mm, 6mm, 8mm)



Orth-07-006

#### Finger Ring Cutter

Finger Ring Cutter, Chrome plated



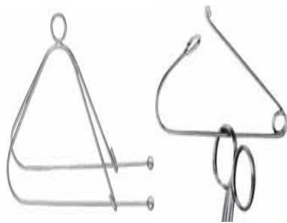
Orth-07-007

#### Nail Clipper

Nail Clipper, 5.5", double spring action, chrome plated

## Orthopedic instruments

### Instrument Image



Orth-07-008

### Specification/Description

**Towel Clamps and safety pins, tubing forceps**

10.5cm, 12.5cm, 14cm



Orth-07-009

**Towel Clamps**

8.5cm, 9cm, 11cm, 13.5cm, 15.5cm, 19.5cm



Orth-07-010

**Tubing Clamp forceps serrated jaw**  
16.5cm, 18cm, 20cm



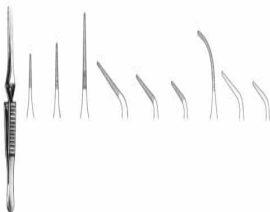
Orth-07-011

**Approximators**

Length of jaws (4mm, 5mm, 6mm, 9mm),  
opening (3mm, 4mm, 5mm), closing  
force (25-30gr., 30-40gr.) diameters  
(3mm, 4mm)

## Orthopedic instruments

### Instrument Image



Orth-07-012

### Specification/Description

#### Bulldog Clamps

4cm, 5cm, 5.5cm, 6cm, length of jaws (2cm, 3cm)



Orth-07-013

#### Needle holders

13cm, 14.5cm, 15cm, 20cm, 23cm, 26.5cm



Orth-07-014

#### Suture Instruments

Sharp/Blunt 21cm, 21.5cm, 22.5cm, 30cm



Orth-07-015

#### Guiding Probes

19.5cm/4.5mm, 20cm/7mm, 18.5cm/8mm, 19.5cm/5mm

## Orthopedic instruments

### Instrument Image



Orth-07-016

### Specification/Description

#### Sondalar Probes

14cm, 14.5cm, 16cm, 20cm, 25cm, 30cm(  
2mm, 2.5mm, 3mm diameters)



Orth-07-017

#### Suction Tubes

18cm (6-9mm), 28.5cm/7-9mm, 27.5cm/6-  
10mm,



Orth-07-018

#### Nerve, Dura and Skin Hooks

15cm, 16cm, 18cm, 19cm, 24.5cm



Orth-07-019

#### Retractors

Sharp/Blunt, Small/large , 15.5cm, 16.5cm,  
18cm

## Orthopedic instruments

### Instrument Image



Orth-07-020

### Specification/Description

#### **Nerve and Nerve Root Retractors**

22cm(90 and 135 degree), 22cm,  
23cm/6mm, 32cm



Orth-07-021

#### **Bone Retractors**

Sharp/Blunt 20.5cm, 22cm, 23cm, 24.5cm



Orth-07-022

#### **Self-Retaining Retractors**

Sharp/Semi sharp/Blunt/Curved, 11cm,  
13cm



Orth-07-023

#### **Hand and Finger Retractors**

10x12mm, 10x18mm– retractor  
only/Complete

## Orthopedic instruments

### Instrument Image



Orth-07-024

### Specification/Description

#### Retractors for Cervical Spine

20cm –32x90mm, 32x100mm– complete



Orth-07-025

#### Lamina Spreaders

14cm, 15.5cm, 13.5cm, 17cm, 27.5cm



Orth-07-026

#### Raspatories

Sharp/Blunt/, 18cm, 18.5cm,  
20.5cm,22cm,24cm, 24.5cm



Orth-07-027

#### Bone Levers

15.5cm, 16.5cm,17cm (4.5mm, 5mm,  
5.5mm)



## Orthopedic instruments

### Instrument Image



Orth-07-028

### Specification/Description

#### **Special Bone Levers**

Sharp/blunt 25-65mm /big/small,  
17.5cm,20cm,21cm, 34cm



Orth-07-029

#### **Osteotomes, chisels and Gouges**

14cm, 15.5cm, 13.5cm, 17cm,  
21.5cm,27.5cm



Orth-07-030

#### **Osteotomes Gouges**

20cm, 20.5cm,22cm,24cm, 24.5cm



Orth-07-031

#### **Gouges**

R=40mm, 50mm– 25cm, 27cm,32cm,  
37cm, 40cm

## Orthopedic instruments

### Instrument Image



Orth-07-032

### Specification/Description

#### Tempers

10cm, 12cm, 16cm, 20cm (5mm, 5.7mm, 7mm, )



Orth-07-033

#### Mallets

18.5cm, 19cm, 21.5cm, 23.5cm, 24cm, 24.5cm (165gr, 240gr, 140gr, 300gr, 400gr), (20mm, 22mm, 27mm, 30mm)



Orth-07-034

#### Bone Curettes

16cm, 14.5cm, 17cm (3mm, 4mm, 5mm, 6mm-diameter)



Orth-07-035

#### Bone Files and Rasps

Fine teeth/Coarse teeth, 17.5cm, 18cm, 19cm, 20cm, 20.5cm (6mm, 7mm, 8mm)

## Orthopedic instruments

### Instrument Image



Orth-07-036

### Specification/Description

#### **Reposition Forceps and Distractor**

9.5 cm , 13.5cm, 16.5cm, 17cm, 20.5cm



Orth-07-037

#### **Bone Holding Forceps**

Laterally curved— 18cm, 18.5cm, 20cm, 22.5cm



Orth-07-038

#### **Bone Clamps**

17.5cm, 20.5cm, 21cm



Orth-07-039

#### **Bone Cutting Forceps**

13cm, 14cm, 17cm, 20cm, 22cm, 24cm, 28cm

## Orthopedic instruments

### Instrument Image



Orth-07-040

### Specification/Description

#### Synovectomy and Bone Rongeurs

13cm—width of jaw 1.2mm, 2.0mm ,  
14cm, 14.5cm, 15cm, 15.5cm ,17cm  
,17.5cm



Orth-07-041

#### Bone Rongeurs

14cm, 16.5cm, 17.5cm , 18cm, 19cm,  
20cm,



Orth-07-042

#### Punches

18cm, with 1mm, 2mm, 3mm,4mm, 5mm



Orth-07-043

#### Rongeurs

Shaft length 11cm with 3.6mm, 4.2mm,  
4.8mm; 15.5cm with 2mm, 3mm,4mm,  
5mm

## Orthopedic instruments

### Instrument Image



Orth-07-044

### Specification/Description

#### Skull Traction Instruments

Small size, medium size, Traction tong with adjustable pins and spanner



Orth-07-045

#### Skull traction Wrench

Traction wrench for skull with different size



Orth-07-046

#### Traction instruments

6-22cmx17.5cm, 4-14cmx11.5cm, wire traction bow, adjustable, with 3 hooks



Orth-07-047

#### Large size traction hook

Traction hook of larger size

## Orthopedic instruments

### Instrument Image



Orth-07-048

### Specification/Description

#### **Cerclage**

Wire guided, 27.5cm, 28.5cm, 30.5cm

Wire soft



Orth-07-049

#### **Wire Holding Forceps**

Hard metal edge— 15cm, 17cm, 18.5cm, 20cm—9mm diameter



Orth-07-050

#### **Wire cutting Forceps and Scissors**

Hard metal Edge One jaw serrated/Both jaw serrated— 12cm, 12.5cm, 14cm, 15cm, 16cm



Orth-07-051

#### **Wire Cutting Forceps**

Hard Metal Edged, 2.0 mm, 1.5mm, 1.0mm

## Orthopedic instruments

### Instrument Image



Orth-07-052

### Specification/Description

#### Wire and Screw Cutting Pliers

For cutting off wires, pins, etc up to 6mm diameter , 47cm



Orth-07-053

#### Plaster Spreaders– Plaster Scissors

16cm, 18cm, 18.5cm, 20cm, 21cm

Open jaw– 36cm, 37cm



Orth-07-054

#### Reamers and Awls

17cm, 19.5cm, 23cm, 21.5cm



Orth-07-055

#### Amputation Knives

Length of blade 5.5cm, 6.5cm, 10.5cm, 12cm, 16cm

## Orthopedic instruments

### Instrument Image



Orth-07-056

### Specification/Description

#### Amputaion Saws

Length of blade 11.5cm , 18cm, 20cm, 24cm



Orth-07-057

#### Hand Drills

With key/with out key , drilling chunk 2-2.5mm, 4.5mm, 6.35mm diameter total length 10cm, 14cm,16cm



Orth-07-058

#### Screw drivers

7cm, 8cm, 17.5cm, 20cm,25cm, with 3.5, 2.5, 1.5mm diameter



Orth-07-059

#### Screw and Plate instruments

Bone taps– 20cm, 22cm, with 1.5mm, 2.0mm, 2.7mm, 3.5mm, 4.0mm ,6.5mm diameter



## Orthopedic instruments

### Instrument Image

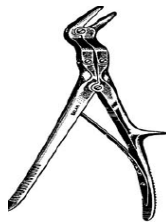


Orth-07-060

### Specification/Description

#### **Ruskin-Liston Bone Cutting Forceps**

Straight/up angled 7.25", 10"



Orth-07-061

#### **Double Action Rongeur**

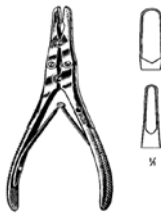
Crancked right/cranked left 8.75"



Orth-07-062

#### **Stille-Luer Rongeur**

Double action straight/curved/angular 8.5"



Orth-07-063

#### **Ruskin Rongeur**

Straight/curved 6"-2mm bite; 7.25"  
straight/curved-5mm bite

## Orthopedic instruments

### Instrument Image



Orth-07-064

### Specification/Description

#### Dean Bone Rongeur

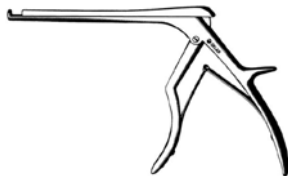
Single action 5.5" curved



Orth-07-065

#### Cast Cutter

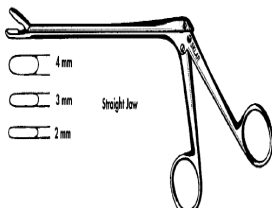
Orthopedic POP cutter



Orth-07-066

#### Cervical Laminectomy Rongeur

Size of 6"- 3mm up/down bite, 5 mm up/down bite



Orth-07-067

#### Intervetebreal Disc Rongeur(Pituitary)

5"/7" shaft (2x10mm cup/ 3x10mm cup)  
Straight/upangled/down angled

## Orthopedic instruments

### Instrument Image



Orth-07-068

### Specification/Description

#### **Zielke Intervertebral rongeur**

Cutting edges extra long, angled up

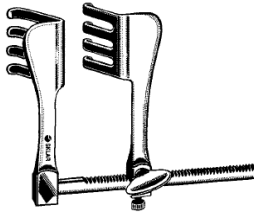
**Use:** For removal of the intervertebral discs



Orth-07-069

#### **Beckman-Adson Retractor**

Sharp/blunt 12.5" with hinged blades 1"x1" deep blades



Orth-07-070

#### **Neuro Retractor**

Blades 2"x2"; spread 6.5"



Orth-07-071

#### **Still type osteotome**

Size of 8" (10mm, 14mm, 18mm, 22mm)

## Orthopedic instruments

### Instrument Image



Orth-07-072

### Specification/Description

#### Silver Osteotome

Straight(right/left), 6", 7"



Orth-07-073

#### Harms Impactor

Lightweight tempered, stainless steel,  
great control, autoclavable,  
large/small(straight/angled) 13.5"



Orth-07-074

#### Bone Tamper

Size 6" with concave tip/cross serrated tip  
(from 2 to 10)mm diameter



Orth-07-075

#### Bone Packer Dissector

6.75" with 1.4mm/2.5mm blade end

## Orthopedic instruments

### Instrument Image



Orth-07-076

### Specification/Description

#### **Lewis Rasp**

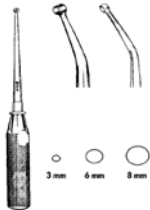
Size of 7" fine/coarse



Orth-07-077

#### **Bone file**

Bone file bayonet handle 8.5" single end/double end



Orth-07-078

#### **Cone Ring Curette**

Size of 9" straight/angular (3,6,8)mm diameter



Orth-07-079

#### **Lowman Clamp**

1x1prong/1x2prong, (4.75"x0.75 , 7.25"x1.5", 8"x1.5") jaw

## Orthopedic instruments

### Instrument Image

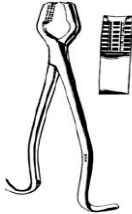


Orth-07-080

### Specification/Description

#### **Lambotte Bone Holding Forceps**

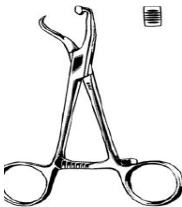
Double articulation 8.5", 10", 12.5"



Orth-07-081

#### **Lane Bone Holding Forceps**

Size of 13", 17" with/without ratches



Orth-07-082

#### **Plate and Bone Holding Forceps**

One pointed tip and foot plate 4.75"



Orth-07-083

#### **Bone Compression Forceps**

Bone Compression Forceps of 5.5" pointed tip

## Orthopedic instruments

### Instrument Image



Orth-07-084

### Specification/Description

#### **Bone and Cartilage Clamp**

Bone and cartilage clamps are 8" curved



Orth-07-085

#### **Tucker Hallux Forceps**

Ball guarded points 4.5"



Orth-07-086

#### **Bone Hook**

Large T handle



Orth-07-087

#### **Blount knee retractor**

Size of 7" , blade 1.75" deep, 3/8" wide tapering to 3/16"

## Orthopedic instruments

### Instrument Image



Orth-07-088

### Specification/Description

#### **Tibia retractor**

Tibia retractor of size 9.5" , small 1.75", large 2.5"



Orth-07-089

#### **Spinal Retractor**

3" small blade/ 4" large blade



Orth-07-090

#### **Adson Elevator**

Size of 6.75 " square end/round end



Orth-07-091

#### **Tendon Strippers**

3 mm/4mm internal diameter 222mm long handle



## Orthopedic instruments

### Instrument Image



Orth-07-092

### Specification/Description

#### **Tendon Transplantation Forceps**

11" 279mm stainless steel



Orth-07-093

#### **Meniscus Clamp**

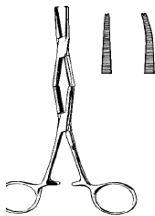
With pins 7.5" shanks curved sideways



Orth-07-094

#### **Tendon Forceps**

Size of 4" (2,3,4,5) mm



Orth-07-095

#### **Tendon Retriever**

Double action, serrated jaws 2x3 teeth, straight/curved 8"

## Orthopedic instruments

### Instrument Image



### Specification/Description

#### **Tendon Passer with olive and eye**

Lightweight, autoclavable handle 11" ,  
7mm

Orth-07-096



#### **Metacarpal Saw**

Total Length 9.5", with 4.5" blade

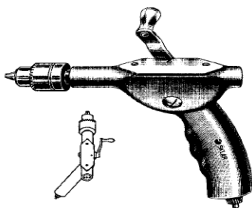
Orth-07-097



#### **T-C wire puller**

Double action 7",8" ;4mm, 6mm

Orth-07-098



#### **Bone Drill-offset Handle**

With Jacobs chuck, for twist drills

Orth-07-099

## Orthopedic instruments

### Instrument Image



Orth-07-100

### Specification/Description

#### **Pediatric Cast Breaker**

Size of 7"



Orth-07-101

#### **Heavy Duty Cast Spreader**

Size of 4" opening , 18.5" long



Orth-07-102

#### **Multi-Cut Utility Scissors**

Serrated 6", 7.5"



Orth-07-103

#### **Plaster Spreader**

2 blades 11", 3 blades 9"



# **Rectal Instrument**

## Rectal instruments

### Instrument Image



Rec-09-000

### Specification/Description

#### **Pratt rectal speculum**

21.6cm long, blades 8.9cm long X 2.5cm wide at distal end



Rec-09-001

#### **SIMS Rectal Speculum**

15.2cm long, fenestrated blades 8.9cm long X 1.6cm wide at distal end



Rec-09-002

#### **BODENHAMMER Rectal speculum**

15.2cm long with set screw blades 8.9cm long X 1.9cm wide at distal end



Rec-09-003

#### **BARR Anal Retractor**

20.3cm, self-retaining blades 7cm X 2.2 cm

## Rectal instruments

### Instrument Image



Rec-09-004

### Specification/Description

#### **COOK Rectal Retractor**

20.3cm, triple bladed self-retaining 10.2cm deep blades, lower blade 1.3cm wide



Rec-09-005

#### **PENNINGTON Rectal Speculum**

8.6cm long X 2.5cm , with boillabe obturator, 12.1cm long handle, chrome



Rec-09-006

#### **HIRSCHMAN Anoscope**

Small size , 5.7cm long X 1.4cm



Rec-09-007

#### **HIRSCHMAN Anoscope**

Large size 8.9cm X 2.2cm / medium size 6.7cm X 1.7cm

## Rectal instruments

### Instrument Image



Rec-09-008

### Specification/Description

#### **KELLY Sphincteroscope**

5.4cm long X 2.5cm , tapering to 2.1cm



Rec-09-009

#### **Biopsy Forceps**

22.9cm shaft/33cm shaft, 3.5 X 10mm bite with basket



Rec-09-010

#### **Rectal Cotton Carrier**

38.1cm shaft with spring action



Rec-09-011

#### **Rectal Biopsy Forceps with piston Grip**

Pistol Grip Spring Handle , 25.4cm shaft, straight 3.5 X 10mm bite jaws



# **Gynecology Instruments**



## Gynecology instruments

### Instrument Image



GyOb-06-000

### Specification/Description

#### **Cervical Biopsy**

Cervical biopsy 2x5mm cup 7" shaft



GyOb-06-001

#### **Cusco Speculum**

Cusco speculum-SML



GyOb-06-002

#### **Winter Ovum Forcep**

Winter ovum forcep of standard size 9.5"



GyOb-06-003

#### **Bonney Ploypi ovum forcep**

Bonney polypi ovum forcep of standard size 9"

## Gynecology instruments

### Instrument Image



GyOb-06-004

### Specification/Description

#### **Vulsellum Forcep**

Volsellum forcep of standard size 7"



GyOb-06-005

#### **Hegar Dilator**

Hegal dilator set



GyOb-06-006

#### **Poole Suction Cannula**

Poole suction cannula of size 11"



GyOb-06-007

#### **General Uterine Sound**

General uttering sound of size 8"

## Gynecology instruments

### Instrument Image



GyOb-06-008

### Specification/Description

#### **Yankauer Suction tube**

Yankauer suction tube of standard size 8 “



GyOb-06-009

#### **Sims vaginal speculum**

Sims vaginal speculum of size , large , medium, and small



GyOb-06-010

#### **Proctoscope**

Proctoscope of size ranging from 145mm to 225mm , and diameter of 22mm



GyOb-06-011

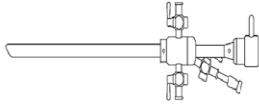
#### **H-smith ovum Forcep**

H-smith ovum Forcep of standard size 9.5”

## Gynecology instruments

### Instrument Image

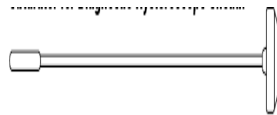
### Specification/Description



#### Operating Hysteroscope

Operating hysteroscope sheath with Distaceholder and obturator for hysteroscope 4mm, 2 stopcocks, ratatable with outer diameter 7mm

GyOb-06-012

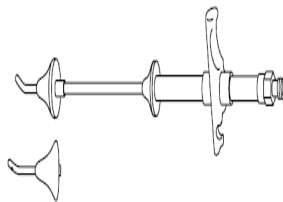


#### Obturator

Obturator for sheath size of 3, 5 mm

GyOb-06-013

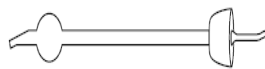
Use : For diagnostic hysteroscope sheath



#### Intra-Uterine Cannula

Intra-Uterine Cannula complete with adaptors

GyOb-06-014



#### Vaccum Intra-Uterine Probe

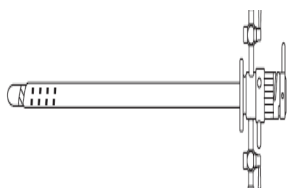
Vaccum intra-uterine probe of size small, medium, large

GyOb-06-015

## Gynecology instruments

### Instrument Image

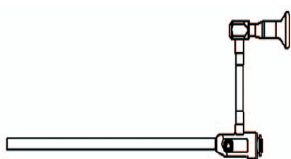
### Specification/Description



#### Flow Resectoscope

Flow resectoscope sheath with rotatable inner tube , external tube

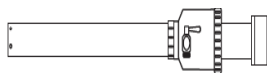
GyOb-06-016



#### Operations-Laparoscope

Operations laparoscope with working channel 6mm diameter/length 329mm

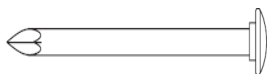
GyOb-06-017



#### Automatic Valve Cannula

Automatic Valve cannula with smooth metal sleeve, length 11.0mm

GyOb-06-018



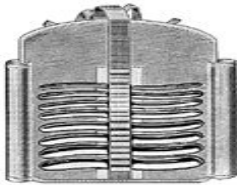
#### Trocar

Trocar with pyramidal/conical point with outer diameter 11.0mm

GyOb-06-019

## Gynecology instruments

### Instrument Image



GyOb-06-020

### Specification/Description

#### **Hegar Uterine Dilators Set**

Hegar Uterine Dilators, stainless steel, set of 8, from 3mm to 18 mm



GyOb-06-021

#### **Schroeder Tenaculum Forceps**

Schroeder Tenaculum Forceps, Straight, stainless steel, 9.75"



GyOb-06-022

#### **Sims Uterine Sound**

Sims Uterine Sound, stainless steel, 32cm 12.5", graduated in centimeters



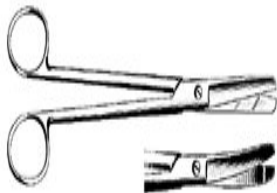
GyOb-06-023

#### **Simpson Uterine Sound**

Simpson Uterine Sound, stainless steel, 32cm 12.5", graduated in centimeters

## Gynecology instruments

### Instrument Image



GyOb-06-024

### Specification/Description

#### **Sims Uterine Scissors**

Sims Uterine Scissors, (Straight,Curved),  
Blunt/Blunt, Stainless steel, 8"



GyOb-06-025

#### **Umbilical Scissors**

Umbilical Scissors, Stainless steel,4"



GyOb-06-026

#### **Female Catheter**

Female Catheter, angled,stainless  
steel,(8fr,10fr,12fr,14fr,16fr,18fr,20fr,22fr,24fr)



GyOb-06-027

#### **Magill Endo Forceps/Magill Catheter Forceps**

Magill Endo Forceps, Adult,9 1/2",stainless  
steel,Magill Endo Forceps,Child,8",  
stainless steel

## Gynecology instruments

### Instrument Image

### Specification/Description



#### **Vaughan Abscess Knife**

Vaughan Abscess Knife , stainless steel, 5", with pocket clip

GyOb-06-028



#### **Walton Comedone Extractor**

Walton Comedone Extractor , stainless steel, 5.5", with cover

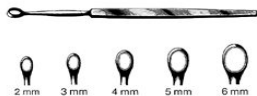
GyOb-06-029



#### **Saalfeld Comedone Extractor**

Saalfeld Comedone Extractor , stainless steel, 5.5"

GyOb-06-030



#### **Fox Dermal Curette**

Fox Dermal Curette, stainless steel, 5.5" (2mm, 3mm, 4mm, 5mm, 6mm)

GyOb-06-031



## Gynecology instruments

### Instrument Image



### Specification/Description

#### Novak Biopsy Curette

Novak Biopsy Curette, stainless steel, 9", 4mm

GyOb-06-032



#### Sims Uterine Curette

Sims Uterine Curette, stainless steel, sharp, 11" (size 0, size 1, size 2, size 3, size 4, size 5, size 6)

GyOb-06-033



#### Vaccume Extractor

With handle, suction pump, glass jar in between top and bottom metal plates fitted with vacuum gauge

GyOb-06-034



#### Unna Comedone Extractor

Unna Comedone Extractor, stainless steel, 5.5"

GyOb-06-035

## Gynecology instruments

### Instrument Image

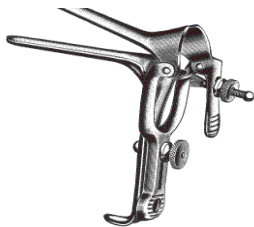


GyOb-06-036

### Specification/Description

#### Graves Vaginal Speculum

Small size, 3/4"X3", medium size of (1-3)/8"X4" and large size 1.5"X4.5"(wide angle brace)



GyOb-06-037

#### Pederson Vaginal Speculum Narrow blades

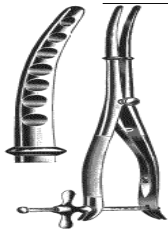
Small size , 0.5X3", medium size with 7/8"X4", large size, with 1X4.75"



GyOb-06-038

#### Vaginal Retractor

Vaginal retractor 7", with blade 1.5'X(3",3.5",4")



GyOb-06-039

#### Uterine Dilator

Uterine dilator 11"(22.9cm)with smooth blade/corrugated blades

## Gynecology instruments

### Instrument Image

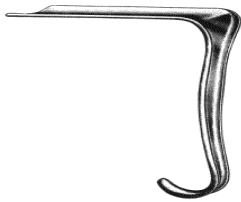


GyOb-06-040

### Specification/Description

#### **Auvard Weighted vaginal specula**

Auvard specula of size 9" slightly angled, with STR blade 1.5"X3.75", (909g,1136g,1363g)



GyOb-06-041

#### **Jackson Vaginal Retractor**

Vaginal retractor of size 7", with blades 1.5"X3",1.5"X3.5",1.5"X4"



GyOb-06-042

#### **Urethral buggies**



GyOb-06-043

#### **Uterine dressing forceps**

Uterine dressing forceps of size 10.5", straight / rings angled sideways, serrated jaws 8X25mm

## Gynecology instruments

### Instrument Image

### Specification/Description



#### Yeoman Biopsy Punch

Yeoman Biopsy Punch, stainless steel, (9",13")

GyOb-06-044



#### Graves Vaginal Speculum

Graves Vaginal Speculum, stainless steel,(75 mmx 20mm, small) , (95 mmx35mm, medium), (115mmx35mm, large)

GyOb-06-045



#### Pederson Vaginal Speculum

Pederson Vaginal Speculum , stainless steel (75mmx13mm, small),(100mmx22mm,medium),(120mmx25mm, large)

GyOb-06-046



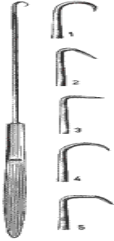
#### Heger Uterine Dilator

Heger Uterine Dilator, stainless steel,(1mm/2mm),(3mm/4mm)

GyOb-06-047

## Gynecology instruments

### Instrument Image



GyOb-06-048

### Specification/Description

#### Uterine Tenaculum Hooks

Size of 9", sharp point, half curved/right angle/double angle/small, large



GyOb-06-049

#### Uterine Tenaculum Forceps

Straight 6.5", 7.25", 8", 9.5", 9.75", angled jaw 8", 9.5", 11" with bent shanks/ double curved 11"



GyOb-06-050

#### Vulsellum Forceps

Curved/straight 10", (3X4 teeth, 5mm wide/4X5 teeth, 8mm wide)/ curved on flat/curved on sideways



GyOb-06-051

#### Uterine Vusellum Forceps

Size of 9.5" / curved sideways ; straight/curved 8.5" serrated jaws, 2X2 teeth

## Gynecology instruments

### Instrument Image



GyOb-06-052

### Specification/Description

#### **Museux**

Size of 6.25", 8", 9.5", 2X2 / 3X3 teeth of size / straight/curved



GyOb-06-053

#### **Tumor Forceps**

Standard size of 11" with 4X4 prongs



GyOb-06-054

#### **Tumor Screw**

Tumor screw of size 6.75" with screw diameter of 1"



GyOb-06-055

#### **Uterine Elecating Forceps**

Uttering electing forceps of size 10.5"

## Gynecology instruments

### Instrument Image



GyOb-06-056

### Specification/Description

#### **Uterine Elevating Forceps**

Uterine elevating forceps of 9", curved, jaws



GyOb-06-057

#### **Endocervical Speculum**

Endocervical speculum of size 9.5" with/without gauge and set screw, offset ring handles



GyOb-06-058

#### **Uterine Biopsy Curette**

Uterine biopsy curette of size 10", extra small sharp loop, outside meas. 2X5mm



GyOb-06-059

#### **Endocervical Biopsy Curette**

Endocervical Biopsy Curette 12" loop of size 3X12mm with/without basket

## Gynecology instruments

### Instrument Image



GyOb-06-060

### Specification/Description

#### Endometrial Suction Biopsy Curette

Endometrial suction biopsy curette of size 9.75" with luer hub, 4mm dia.(standard 12 fr size), 3mm dia (delicate)



GyOb-06-061

#### Thoms-Gaylor

Curved jaws, 5mm bite nter-fitted cups, angled shanks with (8.5",9.5")



GyOb-06-062

#### Comedone Extractor

Comedone extractor of size 3.75",5.75",4.5" with square loop ends/crimped small loop/double end flat and wire end/extra fine loop



GyOb-06-063

#### Delivery Bed



# Physiotherapy instruments

## Physiotherapy instruments

### Instrument Image



PHY-12-000

### Specification/Description

#### Shoulder CPM

With patient data chip card , erasable pen,

**Use:** For frozen shoulder , manipulation , arthroscopic surgery



PHY-12-001

#### Knee CPM

An ultra wide carriage (28cm from the center of carriage), control pendant

**Use :** For anatomical motion of the knee for both pediatric and adult patients.



PHY-12-002

#### Exercise Bikes-healthstream pursuit

Console: heart rate, time, speed, distance, calories, R.P.M, recovery ; large seat, adjustable handlebars



PHY-12-003

#### Healthstream roamer

Console: 2x LCD window, split screen display, time, speed, distance, calories, pulse, RPM

## Physiotherapy instruments

### Instrument Image



PHY-12-004

### Specification/Description

#### Healthstream Treadmill

Motor: 1.3hp continuous, speed: 0.8-14km/h, running area/belt: 121cmx44cm; distance, speed control



PHY-12-005

#### Exercise Discs

Airex balance pad plus size of 50x41cm, cando vestibular disc 35cm

**Use :** For balance training, proprioception and strengthening of lower extremities



PHY-12-006

#### Exercise Mini Tramps

Rehabilitation mini-tramp 96cm-100kg



PHY-12-007

#### Exercise Peddlers

Light weight design, features wrap around foot strap

## Physiotherapy instruments

### Instrument Image



PHY-12-008

### Specification/Description

#### Healthstream Treadmill- 2

Motor: 3hp continuous, speed: 0.8-20km/h, running area/belt: 143cmx51cm; 16 levels; with speed control



PHY-12-009

#### Hand therapy-Digi-extend

Digi-extend each, band replacements

**Use :** Provides isolated extension of all five digits and individual finger joints.



PHY-12-010

#### Hydrocollator heating units

Stainless steel water tanks. Thermostatically controlled



PHY-12-011

#### Tuning forks

Tuning forks without weight/ with weights  
256, 512.

## Physiotherapy instruments

### Instrument Image



PHY-12-012

### Specification/Description

#### Hand Evaluation set

Three piece kit. Baseline 3 piece 91kg dial gauge, hand dynamometer, hydraulic pinch gauge and finger goniometer



PHY-12-013

#### Dynamometers

Hydraulic hand dynamometer 91kg dial gauge/ 136kg digital gauge.

**Use :** Gives accurate grip strength readings without being able to “feel” the handle move.



PHY-12-014

#### Pinch Gauges

Hydraulic gauge baseline 23kg dial gauge; mechanical gauge baseline 14kg dial gauge/27kg dial gauge



PHY-12-015

#### Inclinometers

Baseline bubble inclinometer/wrist inclinometer

**Use :** Allows total range of motion of joints to be accurately measured

## Physiotherapy instruments

### Instrument Image



PHY-12-016

### Specification/Description

#### **Skinfold caliper**

Constructed of lightweight aluminium, the 60mm scale



PHY-12-017

#### **Sphygmomanometers**

Aneroid with large dial and s/s handle with case.



PHY-12-018

#### **Standing Frames**

Dynamic standing frame small 45-60cm, medium 65-85cm, 80-105cm



PHY-12-019

#### **Traction Units-Saunders**

Saunders cervical traction system includes clevis

**Use :** For relieving pressure on structures that can cause pain from the muscular

## Physiotherapy instruments

### Instrument Image



PHY-12-020

### Specification/Description

#### Treatment Chairs

Massage chair with massage desk headrest



PHY-12-021

#### Treatment tables-portable massage

Portable massage ultralite adjustable slim  
63cm, wide 73cm



PHY-12-022

#### Treatment tables-healthtec Eco

Treatment table with duo/tri foam 60mm  
/75mm ; 67cm/72cm; utilizes the scissor  
action lifting mechanism



PHY-12-023

#### Bobath neurological and ultimate

Width option 1200mm; duo/tri foam  
60mm/75mm, head section nose  
hole(plug/extra/custom shape)



# Hospital Equipment



## Hospital Equipment

### Instrument Image



### Specification/Description

#### **Dressing Drum(drum sterilizer)**

Diameters(mm) of 225x225;  
275x240;275x132;350x240;350x130;  
375x300

Hos-13-000



#### **Bowls– lotion and iodine**

Lotion bowl with  
40x60mm/160x70mm/180x80mm; iodine  
bowl 55cc, 110cc, 170cc, 220cc, 280cc

Hos-13-001



#### **Kidney dish**

kidney dish with sizes of  
172x93x34/200x95x38mm size

Hos-13-002



#### **Instrument Trays**

Instrument trays of size 200x130x50mm;  
300x200x65;300x200x50;480x330x19mm

Hos-13-003

## Hospital Equipment

### Instrument Image



Hos-13-004

### Specification/Description

#### Infant Incubator

Infant incubator



Hos-13-005

#### Armrest horse

Fixed / active armrest horse



Hos-13-006

#### Armrest Orthopaedics Horse

Active/ fixed armrest orthopaedics horse



Hos-13-007

#### Wheel chair

Wheel chair aluminium type/electronic type/

## Hospital Equipment

### Instrument Image



Hos-13-008

### Specification/Description

#### Walker and sticks

Walker aluminium/



Hos-13-009

#### Oxygen Inhalator

Max.pressure 200kg/cm<sup>2</sup>, nominal flowrate 1-15l/mm, inlet and outlet connection



Hos-13-010

#### Baby scale

Dual range readability with 0-20 weighing range



Hos-13-011

#### Body weight scale/adult scale

Standard of 700 beam scale with/without height rod

## Hospital Equipment

### Instrument Image



Hos-13-012

### Specification/Description

#### Flat bed

Flat bed with wooden beds/stainless steel bed side



Hos-13-013

#### Wagging hospital bed

Stainless steel bed side and beam single side wagging bed



Hos-13-014

#### Hand Folding Bed

Hand folding bed with three parts/ stainless parts, model furniture



Hos-13-015

#### Hospital child bed

1650x780x630, height adjustable side rail, back rest lifting angle.

## Hospital Equipment

### Instrument Image



Hos-13-016

### Specification/Description

#### Infant bed

Infant bed (single part, multi part)



Hos-13-017

#### Folding stretcher

Folding stretcher with or without bracket/telescopic /scoop type



Hos-13-018

#### Stretcher for ambulance car

Stretcher with aluminium alloy



Hos-13-019

#### Emergency bed

Aluminium alloy , multi purpose emergency bed

## Hospital Equipment

### Instrument Image



Hos-13-020

### Specification/Description

#### Buckets

Buckets of capacity 10ltr, 12ltr, 15ltr



Hos-13-021

#### Catheter Tray

Made from stainless steel. Sizes in cm of 20x7.5; 42.5x10



Hos-13-022

#### Steam sterilizer

Incorporates sterilization cycles, multi-function display; latching door lock system



Hos-13-023

#### Jugs and Jars

Graduated jug with 500cc, 1000cc, 2000cc; ointment jar– 75x57mm, dressing jar 127x165mm, forceps jar 55x114mm, thermometer jar 25x100mm

**Catalogue Index**  
**Diagnostic Instruments**

<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Body fat analyser	DI-02-000	2
Body logic pro body fat analyser	DI-02-001	2
Hand held refractometer	DI-02-002	2
Hemacytometer	DI-02-003	2
Dynatest Dynameter	DI-02-004	3
Reflex babinski persussion hammer	DI-02-005	3
Reflex babinskin persussion hammer with thread	DI-02-006	3
Reflex Berliner percussion hammer	DI-02-007	3
Reflex buck neurological hammer	DI-02-008	4
Reflex buck with needle brush	DI-02-009	4
Reflex dejerine percussion hammer	DI-02-010	4
Reflex percussion hammer foot grade	DI-02-011	4
Reflex queens percussion hammer	DI-02-012	5
Reflex tylor percussor hammer	DI-02-013	5
Reflex troemner percussion hammer	DI-02-014	5
Neurological Hammer	DI-02-015	5
Aluminum pinard foetal stethoscope	DI-02-016	6
Duplex deluxe baby stethoscope	DI-02-017	6
Duplex deluxe neonatal stethoscope	DI-02-018	6
Fetal Doppler ultrasound stethoscope	DI-02-019	6
Deluxe dual head stethoscope	DI-02-020	7
Stainless steel cardiology type stethoscope	DI-02-021	7
Pediatric stethoscope	DI-02-022	7
Regular stethoscope	DI-02-023	7
General blood flow Doppler ultrasound stethoscope	DI-02-024	8
Cardiology stethoscope	DI-02-025	8
Bowles stethoscope	DI-02-026	8
Finger tip pulse oximeter	DI-02-027	8

<b>Diagnostic Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Hand held pulse oximeter	DI-02-028	9
Finger pulse oximeter	DI-02-029	9
Blood pressure cuff infant	DI-02-030	9
Aneroid blood pressure cuff	DI-02-031	9
Aneroid blood pressure combo kit	DI-02-032	10
Hershmamm anal scope	DI-02-033	10
Kelly anoscope	DI-02-034	10
ECG Caliper	DI-02-035	10
Ultrasonic nebulizers	DI-02-036	11
Air compressing nebulizers	DI-02-037	11
Othoscope set	DI-02-038	11
ENT set	DI-02-039	11
Diagnostic set	DI-02-040	12
ophthalmoscope	DI-02-041	12
Sphygmomanometers, mercurial	DI-02-042	12
Sphygmomanometers, aneroid	DI-02-043	12
Auxiliary thermometer	DI-02-044	13
Thermometer for ear	DI-02-045	13
Clinical digital thermometer	DI-02-046	13
Glucose blood monitors	DI-02-047	13



<b>Laboratory Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Mini-shaker for immunology	LA-05-000	15
Mini-rocker shaker	LA-05-001	15
3D- mini shaker	LA-05-002	15
Orbital shaker	LA-05-003	15
Centrifuge/Vortex Multi-spin	LA-05-004	16
Mini-Centrifuge/vortex Micro spin	LA-05-005	16
Laboratory Medical Centrifuge	LA-05-006	16
Universal water thermostat	LA-05-007	16
Microprocessor controlled waterbath	LA-05-008	17
Dry block thermostat	LA-05-009	17
Overhead stirrer	LA-05-010	17
Magnetic stirrers	LA-05-011	17
UV-cleaner box	LA-05-012	18
DNA/RNA PCR-workstation	LA-05-013	18
Densitometer	LA-05-014	18
UV-air flow cleaner-recirculator	LA-05-015	18
Chemical Cart	LA-05-016	19
Glass ware carts	LA-05-017	19
Variable height bench	LA-05-018	19
Carboy caddy	LA-05-019	19
Lab sponge Forceps	LA-05-020	20
Cap tong Forceps	LA-05-021	20
Hot plate	LA-05-022	20
IV stand	LA-05-023	20
Injection Stand	LA-05-024	21
Instrument stand	LA-05-025	21
Instrument tray	LA-05-026	21
Stainless steel lab carts	LA-05-027	21
Electric Bench-centrifuge	LA-05-028	22
Laboratory microscope	LA-05-029	22
Lab Stirrer	LA-05-030	22
Blood Bank Centrifuge	LA-05-031	22
Water Bath thermostatic	LA-05-032	23
Fume hood	LA-05-033	23
Probe Sonicator	LA-05-034	23
Lab Blender	LA-05-035	23
Ultrasonic Cleaner	LA-05-036	24
Eliza reader	LA-05-037	24
Plasma Freezer	LA-05-038	24
Shaking incubator	LA-05-039	24

<b>Laboratory Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Laboratory spectrometer	LA-05-040	25
Deep Freezers	LA-05-041	25
Hot Air Oven	LA-05-042	25
Vaccume oven	LA-05-043	25
Laminar Flow	LA-05-044	26
Bacteriological Incubator	LA-05-045	26
Platelet incubator with agilator	LA-05-046	26
BOD incubator	LA-05-047	26
Vertical/Horizontal high pressure steam sterilizer autoclave	LA-05-048	27
Clean Benches	LA-05-049	27
Biological safety cabinets	LA-05-050	27
Freezer	LA-05-051	27
Pipette shaker	LA-05-052	28
Platelet rotator	LA-05-053	28
Serology rotator	LA-05-054	28
Immersion Water Bath	LA-05-055	28
Heamatology analyser	LA-05-056	29
CD4 count	LA-05-057	29
Clinical chemistry analyser	LA-05-058	29
Urin chemistry analyser	LA-05-059	29

<b>Imaging Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	
X-ray machine	Ima-11-000	31
Computer Tomography (CT) scanner	Ima-11-001	31
Magnetic resonance Imaging(MRI)	Ima-11-002	31
Ultrasound	Ima-11-003	31

<b>General surgery Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Fehland intestinal clamp	GS-04-000	33
Brunner intestinal clamp	GS-04-001	33
Atrauma intestinal clamp	GS-04-002	33
Collin intestinal clamp	GS-04-003	33
PAYR clamp	GS-04-004	34
Appendectomy clamp	GS-04-005	34
Spur crashers	GS-04-006	34
Mantra intestinal clamp	GS-04-007	34
Micor scissors	GS-04-008	35
Delicate sissors	GS-04-009	35
Dissecting scissors	GS-04-010	35
Surgical and dissecting scissors	GS-04-011	35
Micro suture tying forceps	GS-04-012	36
Delicate dissecting forceps	GS-04-013	36
Dissecting forceps	GS-04-014	36
Atraumatic forceps	GS-04-015	36
Organ and tissue grasping forceps	GS-04-016	37
Dressing organ and tissue forceps	GS-04-017	37
Delicate tissue forceps	GS-04-018	37
Delicate haemostatic forceps	GS-04-019	37
Jumbo abdominal retractor	GS-04-020	38
Wartenberg neuro pinwheel	GS-04-021	38
Poole suction tube	GS-04-022	38
Yankauer suction tube	GS-04-023	38
Scissors; straight/blunt	GS-04-024	39
Scissors; curved/blunt	GS-04-025	39
Scissors ;curved, sharp/sharp	GS-04-026	39
Scissors; straight, sharp/blunt	GS-04-027	39
Scissors; straight, sharp/sharp	GS-04-028	40
Scissors; curved, sharp/blunt	GS-04-029	40
Deaver scissors	GS-04-030	40
Mayo scissors	GS-04-031	40
Mayo- stille Scissors	GS-04-032	41
Metzenbaum Scissors	GS-04-033	41
Stevens Tenotomy Scissors	GS-04-034	41
Iris Scissors	GS-04-035	41
Strabismus Scissors	GS-04-036	42
Spencer Stitch Scissors	GS-04-037	42
Littauer Stitch Scissors	GS-04-038	42
Universal Suture Scissors	GS-04-039	42

## General Surgery Instruments

	Reference No.	Page No.
Braun Episiotomy Scissors	GS-04-040	43
Lister Bandage Scissors	GS-04-041	43
Allis Tissue Forceps	GS-04-042	43
Haemostatic Forceps	GS-04-043	43
US pattern Guaze Scissors	GS-04-044	44
Bruns Shears	GS-04-045	44
Esmarch Gauze shears	GS-04-046	44
Thumb Dressing Forceps	GS-04-047	44
Tissue Forceps	GS-04-048	45
Adson Dressing Forceps	GS-04-049	45
Adson Brown Forceps	GS-04-050	45
Cushing Dressing Forceps	GS-04-051	45
Russian Pattern Forceps	GS-04-052	46
Semken Forceps	GS-04-053	46
Splinter Forceps	GS-04-054	46
Feilchenfeld Forceps	GS-04-055	46
Virtus(Ralk) splinter Forceps	GS-04-056	47
Carmalt Splinter Forceps	GS-04-057	47
Hartmann Mosquito Forceps	GS-04-058	47
Halstead Mosquito Forceps	GS-04-059	47
Kelly Forceps	GS-04-060	48
Crile Forceps	GS-04-061	48
Povidence Hospital Forceps	GS-04-062	48
Rochester Pean Forceps	GS-04-063	48
Tube occuluding forceps	GS-04-064	49
Jones Towel Clamps	GS-04-065	49
Bozeman Forceps	GS-04-066	49
Ballenger Forceps	GS-04-067	49
Foerster Forceps	GS-04-068	50
Baumgartner Needle Holder	GS-04-069	50
Crile Wood Needle Holder	GS-04-070	50
Halsey Needle Holder	GS-04-071	50
Olsen Heger Needle Holders	GS-04-072	51
Mayo Hegar Needle Holder	GS-04-073	51
Michel Suture Clip	GS-04-074	51
Frazier Skin Hook	GS-04-075	51
Anesthesia Machine	GS-04-076	52
Defibrillators	GS-04-077	52
ElectroSurgical Generator	GS-04-078	52
Operating Table	GS-04-079	52
Surgical Light	GS-04-080	53
Examination Light	GS-04-081	53
Operating room light	GS-04-082	53
ENT Microscope	GS-04-083	53

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**General Surgery Instruments**

	Reference No.	Page No.
Operating Lamp	GS-04-084	54
Operating lamp with 9 reflector	GS-04-085	54
Diathermy Machine	GS-04-086	54
ECG machine	GS-04-086	54

**ENT instruments**

<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Trocar and cannula	EN-03-000	56
Eicken Antrum cannula	EN-03-001	56
Antrum curette	EN-03-002	56
Freet elevator	EN-03-003	56
Biopsy and grasping forceps	EN-03-004	57
Blakesley nasal forceps	EN-03-005	57
Struempel-voss nasal forceps	EN-03-006	57
Telescope handles	EN-03-007	57
Sickle knife	EN-03-008	58
Septum needle	EN-03-009	58
Antrum punch	EN-03-010	58
Nasal sissors	EN-03-011	58
Hartmann nasal spectrum	EN-03-012	59
Frazier suction tube	EN-03-013	59
Telescope	EN-03-014	59
Cowthorne micro aural scissors	EN-03-015	59
Trousseau trachea dilator	EN-03-016	60
La-borde trachea dilator	EN-03-017	60
Collin tongue forceps	EN-03-018	60
Young toungue forceps	EN-03-019	60
Tongue depressors	EN-03-020	61
Nose/ear speculum	EN-03-021	61
Nose and ear forceps and scissor	EN-03-022	61
Suction cannulas	EN-03-023	61
Hook loop	EN-03-024	62
Laryngeal mirror	EN-03-025	62
Aural speculum	EN-03-026	62
Aural forceps	EN-03-027	62
Aural scissors	EN-03-028	63
Aural syringe	EN-03-029	63
Bacon syringe	EN-03-030	63
Micro aural forceps	EN-03-031	63
Trachea dilating forceps	EN-03-032	64
Dissecting forceps	EN-03-033	64
Sinus forceps	EN-03-034	64
Artery forceps	EN-03-035	64
Multi cut utility scissors	EN-03-036	65
Scalpels	EN-03-037	65
Bandage sissors	EN-03-038	65
Mayo needle holders	EN-03-039	65

<b>ENT Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Percussors	EN-03-040	66
Dressing scissors	EN-03-041	66
Cowthorne middle ear hook	EN-03-042	66
Wax hook	EN-03-043	66
Tuning forks	EN-03-044	67
Cautery burners	EN-03-045	67
Probes	EN-03-046	67
Suction tube(insulated)	EN-03-047	67
Nasal dilator	EN-03-048	68
Tracheostomy	EN-03-049	68
Eustachian catheters	EN-03-050	68
Otoscope	EN-03-051	68
Meyhoefer curette	EN-03-052	69
Dix needle and spud	EN-03-053	69
Hartmann ear specula	EN-03-054	69
Metal ear syringe	EN-03-055	69
Wilde ear forceps	EN-03-056	70
Lucae ear forceps	EN-03-057	70
Hartmann ear forceps	EN-03-058	70
Hartmann alligator forceps	EN-03-059	70
Buck ear curette, sharp	EN-03-060	71
Billeau ear loop	EN-03-061	71
Vienna nasal speculum	EN-03-062	71
Doyen jansen mouth gag	EN-03-063	71
Laryngoscope head mirror	EN-03-064	72
Rhinoscopic	EN-03-065	72
Tweezers, college dressing	EN-03-066	72
Head universal table	EN-03-067	72

## Ophthalmic Instruments

Instrument Name	Reference No.	Page No.
Slit lamp	Opt-08-000	74
Surgical microscope	Opt-08-001	74
Sinoscope	Opt-08-002	74
Photo slit lamp	Opt-08-003	74
Blade breakers and holders	Opt-08-004	75
Micro blade holder	Opt-08-005	75
Stainless steel blades	Opt-08-006	75
Swiss blade breaker and holder	Opt-08-007	75
Castroviejo caliper	Opt-08-008	76
Caliper	Opt-08-009	76
Mendez degree gauge	Opt-08-010	76
Stainless steel flexible ruler	Opt-08-011	76
Thorpe caliper	Opt-08-012	77
Air injection cannula	Opt-08-013	77
Retrobulabar needle	Opt-08-014	77
Irrigating cannula	Opt-08-015	77
Anterior chamber irrigator	Opt-08-016	78
Double barrel cannula	Opt-08-017	78
Irrigating aspirating cannula	Opt-08-018	78
Hydrorodissection cannula	Opt-08-019	78
Cannulated cystotome	Opt-08-020	79
Kratz cystotome	Opt-08-021	79
Cortex extractor	Opt-08-022	79
Lieppeman cystotome	Opt-08-023	79
Male to male cannula adaptor	Opt-08-024	80
Vitreous aspirating needle	Opt-08-025	80
Coaxial irrigating aspirating system	Opt-08-026	80
Mcintyre inner cannula	Opt-08-027	80
Mcintyre Outer cannula	Opt-08-028	81
Lacrimal cannula	Opt-08-029	81
Double sharp cystotome	Opt-08-030	81
Reinforced lacrimal cannula	Opt-08-031	81
Cortex extractor	Opt-08-032	82
Two way air bubble removal cannula	Opt-08-033	82
Chymotryspin cannula	Opt-08-034	82
Suture placement marker	Opt-08-035	82
Optical Zone marker	Opt-08-036	83
Radial marker	Opt-08-037	83
Arcuate marker	Opt-08-038	83
Double corneal ruler	Opt-08-039	83



<b>Ophthalmic Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Iris and IOL hook	Opt-08-040	84
Foreign body curette	Opt-08-041	84
Chalazion curette	Opt-08-042	84
Curved capsule forceps	Opt-08-043	84
Castroviejo cross action capsule forceps	Opt-08-044	85
Nuclear fragment forceps	Opt-08-045	85
Capsule-foreign body forceps	Opt-08-046	85
Capsulorhexis forceps	Opt-08-047	85
Utrata capsulorhexis forceps	Opt-08-048	86
Chalzion forceps	Opt-08-049	86
Lid forceps	Opt-08-050	86
Entropian forceps	Opt-08-051	86
Cilia forceps	Opt-08-052	87
Castroviejo-colibri corneal forcep	Opt-08-053	87
Corneal utility forceps	Opt-08-054	87
Corneoscleral forceps	Opt-08-055	87
Corneal fixation forceps	Opt-08-056	88
Fixation forceps	Opt-08-057	88
Corneal fixation forceps	Opt-08-058	88
Cojunctival fixation forceps	Opt-08-059	88
Intraocular forceps	Opt-08-060	89
Vitreous foreign body forceps	Opt-08-061	89
Lens holding forceps	Opt-08-062	89
Tying forceps	Opt-08-063	89
Intraocular lens forceps	Opt-08-064	90
Folding forceps	Opt-08-065	90
Intraocular lens forceps	Opt-08-066	90
Iris forceps	Opt-08-067	90
Mosquito forceps	Opt-08-068	91
Muscle clamp	Opt-08-069	91
Ptosis forceps	Opt-08-070	91
Muscle foceps-adult	Opt-08-071	91
Pediatric muscle forceps	Opt-08-072	92
Rectus forceps	Opt-08-073	92
Retinal forceps	Opt-08-074	92
Suturing forceps	Opt-08-075	92
Eye and ear suturing forceps	Opt-08-076	93
Tissue forceps	Opt-08-077	93
Baby jones towl clamp	Opt-08-078	93
Backhaus towl clamp	Opt-08-079	93

<b>Ophthalmic Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Utility forceps	Opt-08-080	94
Nucleus cracker	Opt-08-081	94
Double fixation hook	Opt-08-082	94
Sclera twist fixation cone	Opt-08-083	94
Lens manipulation hook	Opt-08-084	95
Insertion hook	Opt-08-085	95
Iris hook lens manipulator	Opt-08-086	95
Muscle hook	Opt-08-087	95
Goniotomy knife	Opt-08-088	96
Foreign body spud	Opt-08-089	96
Corneal knife	Opt-08-090	96
Spud and gouge	Opt-08-091	96
Lens spoon	Opt-08-092	97
Irrigatin vectus	Opt-08-093	97
Reverse irrigating vectus	Opt-08-094	97
Lens loop	Opt-08-095	97
Irrigating lens loop	Opt-08-096	98
Needle holders	Opt-08-097	98
Micopoint needle holders	Opt-08-098	98
Nucleus rotator	Opt-08-099	98
Nucleus support spatula	Opt-08-100	99
Nucleus trisector	Opt-08-101	99
Stop and chop manipulator	Opt-08-102	99
Nucleus chopper	Opt-08-103	99
Mini lacrimal probes	Opt-08-104	100
Stainless steel lacrimal probes	Opt-08-105	100
Castroviejo lacrimal dilator	Opt-08-106	100
Lacrimal intubation set	Opt-08-107	100
Trabeculotomy probe	Opt-08-108	101
Infant lacrimal dilator	Opt-08-109	101
Pigtail probe	Opt-08-110	101
Retinal pick	Opt-08-111	101
Retinal detachment hook	Opt-08-112	102
Membrane spatula	Opt-08-113	102
Collar button	Opt-08-114	102
Expressor and iris retractor	Opt-08-115	102
Lacrimal sac retractor	Opt-08-116	103
Orbital retractor	Opt-08-117	103
Sclera and blepharostat ring	Opt-08-118	103
Capsulotomy scissors	Opt-08-119	103

<b>Ophthalmic Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Corneal scissors	Opt-08-120	104
Transplant scissors	Opt-08-121	104
Corneal section scissors	Opt-08-122	104
Enucleation scissors	Opt-08-123	104
Intraocular scissors	Opt-08-124	105
Iris scissors	Opt-08-125	105
Eye scissors	Opt-08-126	105
Conjunctival scissors	Opt-08-127	105
Sclera depressor	Opt-08-128	106
Capsule polisher	Opt-08-129	106
Enucleation spoon	Opt-08-130	106
Enucleation snare	Opt-08-131	106
Flat enucleation spoon	Opt-08-132	107
Double-ended cyclodialysis spatula	Opt-08-133	107
Iris spatula	Opt-08-134	107
Lens nucleus spatula	Opt-08-135	107
Eye speculum	Opt-08-136	108
Lens folding forceps	Opt-08-137	108
Castroviejo mini corneal scissors	Opt-08-138	108
Keratometer	Opt-08-139	108
Stereomicroscope	Opt-08-140	109
Reverse position microscopes	Opt-08-141	109
Routine microscope	Opt-08-142	109
Refractometer	Opt-08-143	109

<b>Cardiovascular and thoracic Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Approximator	CARTH-10-000	111
Miniature aorta clamp	CARTH-10-001	111
Aortic aneurysm clamp	CARTH-10-002	111
Aortic exclusion clamp	CARTH-10-003	111
Auricle appendage clamp	CARTH-10-004	112
A-V fistula clamp	CARTH-10-005	112
Bronchus clamp	CARTH-10-006	112
Bulldog clamp	CARTH-10-007	112
Carotid Artery Clamp	CARTH-10-008	113
Carotic Artery Bypass Clamps	CARTH-10-009	113
Coarctation Clamps	CARTH-10-010	113
Crile-type clamp	CARTH-10-011	113
Iliac clamps	CARTH-10-012	114
Ligature carrying forceps	CARTH-10-013	114
Multi-purpose clamps	CARTH-10-014	114
Patent ductus clamps	CARTH-10-015	114
Peripheral vascular clamps	CARTH-10-016	115
Renal artery clamps	CARTH-10-017	115
Tangential occlusion clamps	CARTH-10-018	115
Tubing clamp	CARTH-10-019	115
Anastomosis clamp	CARTH-10-020	116
Vessel clamp	CARTH-10-021	116
Vascular clamps	CARTH-10-022	116
Venecava clamps	CARTH-10-023	116
Rib contractor	CARTH-10-024	117
Intima dissectors	CARTH-10-025	117
Dilator	CARTH-10-026	117
Vascular dilators	CARTH-10-027	117
Artery forceps	CARTH-10-028	118
Coronary forceps	CARTH-10-029	118
Hemostatic forceps	CARTH-10-030	118
Intestinal forceps	CARTH-10-031	118
Ligature carring forceps	CARTH-10-032	119
Lung grasping forceps	CARTH-10-033	119
Suture tag forceps	CARTH-10-034	119
Thoracic clamp forceps	CARTH-10-035	119
Thoracic artery forceps	CARTH-10-036	120
Intra-thoracic forceps	CARTH-10-037	120
Thoracic tissue forceps	CARTH-10-038	120
Vascular forceps	CARTH-10-039	120

<b>Cardiovascular and thoracic Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Vessel forceps	CARTH-10-040	121
Vein holder	CARTH-10-041	121
Stenal knife	CARTH-10-042	121
Flushing needle	CARTH-10-043	121
Aortic punches	CARTH-10-044	122
Coastal peiosteotomes	CARTH-10-045	122
Rib raspatories	CARTH-10-046	122
Epicardial retractor	CARTH-10-047	122
Lung retractor	CARTH-10-048	123
Atrial retractors	CARTH-10-049	123
Scapular retractors	CARTH-10-050	123
Aortic valve retractors	CARTH-10-051	123
Vascular retractor	CARTH-10-052	124
Popleteal retractors	CARTH-10-053	124
Rib retractors	CARTH-10-054	124
Infant rib retractors	CARTH-10-055	124
Sterna retractors	CARTH-10-056	125
Epicardial retractors	CARTH-10-057	125
Rib rongeur,double action	CARTH-10-058	125
Cardiovascular scissors	CARTH-10-059	125
Circumflex artery scissors	CARTH-10-060	126
Coronary artery scissors	CARTH-10-061	126
Coraonary artery scissors(small blade width)	CARTH-10-062	126
I.M.A scissors	CARTH-10-063	126
Dissecting Scissors	CARTH-10-064	127
Endarterectomy scissors	CARTH-10-065	127
Stitch scissors	CARTH-10-066	127
Metzenbaum tenotomy scissors	CARTH-10-067	127
Tissue scissors	CARTH-10-068	128
Vascular scissors	CARTH-10-069	128
Valve scissors	CARTH-10-070	128
Mitral valve scissors	CARTH-10-071	128
Rib shear	CARTH-10-072	129
Vein spreader	CARTH-10-073	129
Rib stripper and elevator	CARTH-10-074	129
Graft suction tube	CARTH-10-075	129
Vascular suction tube	CARTH-10-076	130
Left ventricular suction tube	CARTH-10-077	130
Cardiovascular touniquests	CARTH-10-078	130
Empyema trocars	CARTH-10-079	130

<b>Dental Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Explorers	DE-01-000	132
probes	DE-01-001	132
Explorers/probes	DE-01-002	132
Mirror Handle	DE-01-003	132
Sickle/Jacquette scalers	DE-01-004	133
Black titanium instruments	DE-01-005	133
Sickle scalers/curettes	DE-01-006	133
Derbinement/furcation	DE-01-007	133
Surgical knives/files	DE-01-008	134
Surgical curettes	DE-01-009	134
Periotomes	DE-01-010	134
Surgical chisels	DE-01-011	134
Osteotomes	DE-01-012	135
Sinus lift instruments	DE-01-013	135
Osteotomes 2	DE-01-014	135
Endo forceps	DE-01-015	135
Bone syringe	DE-01-016	136
Castroviejo	DE-01-017	136
Tissue plier	DE-01-018	136
Tissue, cotton and dressing pliers	DE-01-019	136
Accu Laxating	DE-01-020	137
Titanium instruments	DE-01-021	137
Cotton pliers	DE-01-022	137
Scalpel	DE-01-023	137
PKT waxing	DE-01-024	138
Amalgam carriers	DE-01-025	138
Gingival retractors/cord packers	DE-01-026	138
Plastic filling	DE-01-027	138
Pluggers and Condensors	DE-01-028	139
Spreaders and heat carriers	DE-01-029	139
Rubber dam clamps	DE-01-030	139
Ivory light weight	DE-01-031	139
Periosteals	DE-01-032	140
Surgical curettes(spoon)	DE-01-033	140
Bone chesels/files	DE-01-034	140
Chisels and gouges	DE-01-035	140
Bone rongeurs	DE-01-036	141
Root splinter	DE-01-037	141
Sponge and dressing forceps	DE-01-038	141
Haemostatic forceps	DE-01-039	141
Needle holders	DE-01-040	142
Gum scissors	DE-01-041	142
Tungsten carbide insert	DE-01-042	142
Raspatories	DE-01-043	142

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**Dental Instruments**

<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Skin hook and retractors	DE-01-044	143
Mouth Gag	DE-01-045	143
Scalpel handle	DE-01-046	143
Syringes	DE-01-047	143
Elevators	DE-01-048	144
Root tip picks/teasers	DE-01-049	144
Extraction forceps	DE-01-050	144
Extraction forceps/periodontal pattern	DE-01-051	144
Crown scissors	DE-01-052	145
Crown spreader	DE-01-053	145
Crown remover	DE-01-054	145
Impression trays	DE-01-055	145
Cutters	DE-01-056	146
Band remover	DE-01-057	146
Pliers	DE-01-058	146
Matrix retainers	DE-01-059	146
Dental unit	DE-01-060	147
Wax knives	DE-01-061	147
Towel clamps	DE-01-062	147
Cavitrons	DE-01-063	147

<b>Orthopedic Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Scalpel Handles	Orth-07-000	149
Dermatomes	Orth-07-001	149
Bandage and Cloth Scissors	Orth-07-002	149
Tendon Forceps	Orth-07-003	149
Piffard Dermal Curette	Orth-07-004	150
Keyes Dermal Punch	Orth-07-005	150
Finger Ring Cutter	Orth-07-006	150
Nail Clipper	Orth-07-007	150
Towel Clamps and safety pins	Orth-07-008	151
Towel clamps	Orth-07-009	151
Tubing Clamps	Orth-07-010	151
Approximators	Orth-07-011	151
Bulldog clamps	Orth-07-012	152
Needle holders	Orth-07-013	152
Suture instruments	Orth-07-014	152
Guiding Probes	Orth-07-015	152
Sondalar Probes	Orth-07-016	152
Suction Tubes	Orth-07-017	153
Nerve, Dura and Skin Hooks	Orth-07-018	153
Retractor	Orth-07-019	153
Nerve and nerve root retractor	Orth-07-020	153
Bone Retractors	Orth-07-021	154
Self-retaining retractors	Orth-07-022	154
Hand and finger retractors	Orth-07-023	154
Retractors for Cervical Spine	Orth-07-024	154
Lamina Spreaders	Orth-07-025	155
Raspatories	Orth-07-026	155
Bone Levers	Orth-07-027	155
Special Bone Levers	Orth-07-028	156
Osteotomes, chisels and Gouges	Orth-07-029	156
Osteotomes Gouges	Orth-07-030	156
Gouges	Orth-07-031	156
Tempers	Orth-07-032	157
Mallets	Orth-07-033	157
Bone curettes	Orth-07-034	157
Bone files and Rasps	Orth-07-035	157
Reposition forceps and distractor	Orth-07-036	158
Bone holding forceps	Orth-07-037	158
Bone clamps	Orth-07-038	158
Bone cutting forceps	Orth-07-039	158



<b>Orthopedic Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Synovectomy and Bone Rongeurs	Orth-07-040	159
Bone Rongeurs	Orth-07-041	159
Punches	Orth-07-042	159
Rongeurs	Orth-07-043	159
Skull Traction instruments	Orth-07-044	160
Skull traction wrench	Orth-07-045	160
Traction instruments	Orth-07-046	160
Large size traction hook	Orth-07-047	160
Cerclage	Orth-07-048	161
Wire holding forceps	Orth-07-049	161
Wire cutting forceps and scissors	Orth-07-050	161
Wire cutting forceps hard metal	Orth-07-051	161
Wire and screw cutting pliers	Orth-07-052	162
Plaster spreaders	Orth-07-053	162
Reamers and awls	Orth-07-054	162
Amputation knives	Orth-07-055	162
Amputation saws	Orth-07-056	163
Hand drills	Orth-07-057	163
Screw drivers	Orth-07-058	163
Screw and plate instruments	Orth-07-059	163
Ruskin-liston bone cutting forcep	Orth-07-060	164
Double action rongeur	Orth-07-061	164
Stille-luer rongeur	Orth-07-062	164
Ruskin rongeur	Orth-07-063	164
Dean bone rongeur	Orth-07-064	165
Adson rongeur	Orth-07-065	165
Cervical laminotomy rongeur	Orth-07-066	165
Intervertebral disk rongeur	Orth-07-067	165
Zielke intervertebral rongeur	Orth-07-068	165
Bechman-adson retractor	Orth-07-069	166
Neuro- retractor	Orth-07-070	166
Still type osteotome	Orth-07-071	166
Silver osteotome	Orth-07-072	167
Harms impactor	Orth-07-073	167
Bone tamper	Orth-07-074	167
Bone packer dissector	Orth-07-075	167
Lewis rasp	Orth-07-076	168
Bone file	Orth-07-077	168
Cone ring curette	Orth-07-078	168
Lowman clamp	Orth-07-079	168

<b>Orthopedic Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Lambotte bone holding forceps	Orth-07-080	169
Lane bone holding forceps	Orth-07-081	169
Plate and bone holding forceps	Orth-07-082	169
Bone compression forceps	Orth-07-083	169
Bone and cartilage clamp	Orth-07-084	170
Tucker hallux forceps	Orth-07-085	170
Bone hook	Orth-07-086	170
Blount knee retractor	Orth-07-087	170
Tibia retractor	Orth-07-088	171
Spinal retractor	Orth-07-089	171
Adson elevator	Orth-07-090	171
Tendon strippers	Orth-07-091	171
Tendon Transplantaion forceps	Orth-07-092	172
Meniscus clamp	Orth-07-093	172
Tendon forceps	Orth-07-094	172
Tendon retriever	Orth-07-095	172
Tendon passer with olive	Orth-07-096	173
Metacarpal saw	Orth-07-097	173
T-C wire puller	Orth-07-098	173
Bone drill-offset handle	Orth-07-099	173
Pediatric cast breaker	Orth-07-100	174
Heavy duty cast spreader	Orth-07-101	174
Multi-cut utility scissors	Orth-07-102	174
Plaster spreader	Orth-07-103	174

<b>Rectal Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Pratt rectal speculum	Rec-09-000	176
Sims rectal speculum	Rec-09-001	176
Bodenhammer rectal speculum	Rec-09-002	176
Barr anal retractor	Rec-09-003	176
Cook rectal retractor	Rec-09-004	177
Pennington rectal speculum	Rec-09-005	177
Hirschman anoscope	Rec-09-006	177
Hirschman anoscope (large)	Rec-09-007	177
Kelly sphincteroscope	Rec-09-008	178
Biopsy forceps	Rec-09-009	178
Rectal cottone carrier	Rec-09-010	178
Rectal biopsy forceps with piston grip	Rec-09-011	178

<b>Gynecology Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Cervical Biopsy	GyOB-06-000	180
Cusco speculum	GyOB-06-001	180
Winter Ovum Forceps	GyOB-06-002	180
Bonney Ploypi ovum forceps	GyOB-06-003	180
Vulsellum Forceps	GyOB-06-004	181
Hegar Dilator	GyOB-06-005	181
Poole Suction cannula	GyOB-06-006	181
General Uterine Sound	GyOB-06-007	181
Yankauer Suction tube	GyOB-06-008	182
Sims Vaginal Speculum	GyOB-06-009	182
Proctoscope	GyOB-06-010	182
H-smith ovum Forcep	GyOB-06-011	182
Operating Hysteroscope	GyOB-06-012	183
Obturator	GyOB-06-013	183
Intra-Uterine Cannula	GyOB-06-014	183
Vaccum Intra-Uterine Probe	GyOB-06-015	183
Flow Resectoscope	GyOB-06-016	184
Operations-Laparoscope	GyOB-06-017	184
Automatic Valve Cannula	GyOB-06-018	184
Trocar	GyOB-06-019	184
Hegar Uterine dilator set	GyOB-06-020	185
Schroeder Tenaculum Forceps	GyOB-06-021	185
Sims Uterine Sound	GyOB-06-022	185
Simpson Uterine sound	GyOB-06-023	185
Sims uterine Scissors	GyOB-06-024	186
Umbilical Scissors	GyOB-06-025	186
Female Catheter	GyOB-06-026	186
Magill Endo Forceps	GyOB-06-027	186
Vaughan Absess knife	GyOB-06-028	187
Walton Comedone Extractor	GyOB-06-029	187
Saalfeld comedone Extractor	GyOB-06-030	187
Fox Dermal Curette	GyOB-06-031	187
Novak Biopsy Curette	GyOB-06-032	188
Sims Uterine Curette	GyOB-06-033	188
Schamberg Comedone Extractor	GyOB-06-034	188
Unna comedone Extractor	GyOB-06-035	188
Graves Vaginal Speculum	GyOB-06-036	189
Pederson Vaginal Speculum narrow Blades	GyOB-06-037	189
Vaginal Retractor	GyOB-06-038	189
Uterine Dilator	GyOB-06-039	189

<b>Gynecology Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Auvar Weighted Vaginal Specula	GyOB-06-040	190
Jackson Vaginal Retractor	GyOB-06-041	190
Uterine Sound silver plated	GyOB-06-042	190
Uterine dressing forceps	GyOB-06-043	190
Yeoman Biopsy Punch	GyOB-06-044	191
Graves Vaginal Speculum	GyOB-06-045	191
Pederson Vaginal Speculum	GyOB-06-046	191
Heger Uterine Dilator	GyOB-06-047	191
Uterine Tenaculum Hooks	GyOB-06-048	192
Uterine Teneculum Forceps	GyOB-06-049	192
Vulsellum Forceps	GyOB-06-050	192
Uterine Vusellum Forceps	GyOB-06-051	192
Museux	GyOB-06-052	193
Tumor forceps	GyOB-06-053	193
Tumor Screw	GyOB-06-054	193
Uterine Elecating Forceps	GyOB-06-055	193
Uterine Elevating Forceps	GyOB-06-056	194
Endocervical speculum	GyOB-06-057	194
Uterine Biopsy Curette	GyOB-06-058	194
Endocervical Biopsy Curette	GyOB-06-059	194
Endometrial suction biopsy Curette	GyOB-06-060	195
Thoms-Gaylor	GyOB-06-061	195
Finger ring cutter	GyOB-06-062	195
Comedone Extractor	GyOB-06-063	195

<b>Physiotherapy Instruments</b>		
<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No.</b>
Shoulder CPM	PHY-12-000	197
Knee CPM	PHY-12-001	197
Exercise bikes	PHY-12-002	197
Health stram roamer	PHY-12-003	197
Healthstream treadmill	PHY-12-004	198
Exercise discs	PHY-12-005	198
Exercise mini tramps	PHY-12-006	198
Exercise peddlers	PHY-12-007	198
Healthstream treadmill	PHY-12-008	199
Hand therapy-digi-extend	PHY-12-009	199
Hydrocollator heating units	PHY-12-011	199
Tunning forks	PHY-12-012	199
Hand evaluation set	PHY-12-013	200
Dynamometers	PHY-12-014	200
Pinch gauges	PHY-12-015	200
Inclinometers	PHY-12-016	200
Skinfold caliper	PHY-12-017	201
Sphygmomanometers	PHY-12-018	201
Standing frames	PHY-12-019	201
Traction units-saunders	PHY-12-020	201
Treatment chairs	PHY-12-021	202
Treatment tables-portable massage	PHY-12-022	202
Treatment table-healthtechEco	PHY-12-023	202
Bobath neurological and ultimate	PHY-12-024	202

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**Hospital Equipment**

<b>Instrument Name</b>	<b>Reference No.</b>	<b>Page No</b>
Dressing drum(drum sterilizer)	Hos-13-000	204
Bowls- lotion and iodine	Hos-13-001	204
Kidney dishes	Hos-13-002	204
Instrument trays	Hos-13-003	204
Infant incubators	Hos-13-004	205
Armrest horse	Hos-13-005	205
Armrest orthopedic horse	Hos-13-006	205
Wheel chair	Hos-13-007	205
Walker and sticks	Hos-13-008	206
Oxygen inhalator	Hos-13-009	206
Baby scale	Hos-13-010	206
Body weight scale	Hos-13-011	206
Flat bed	Hos-13-012	207
Wagglng hospital bed	Hos-13-013	207
Hand folding bed	Hos-13-014	207
Hospital child bed	Hos-13-015	207
Infant bed	Hos-13-016	208
Folding stretcher	Hos-13-017	208
Stretcher for ambulance car	Hos-13-018	208
Emergency bed	Hos-13-019	208
buckets	Hos-13-020	209
Catheter tray	Hos-13-021	209
Steam sterilizer	Hos-13-022	209
Jugs and Jars	Hos-13-023	209